Established 1848.

ST. LOUIS, MO. WEDNESDAY, OCTOBER 9, 1901.

Volume LIV., No. 40.

COLMAN'S RURAL WORLD.

HORMAN J. COLMAN, BEDITORS.

Published every Wednesday, in Chemical building, corner of Eighth and Olive streets, St. Louis, Mo., at one dollar per year. Eastern office, Chalmer D. Colyndry of the Challet D. Colyndry of the United States. Address all letters to COLMAN'S RURAL WORLD, Chemical Building, St. Louis, Mo.

able the circulation of the RU-RAL WORLD annually is an ambition of the Publishers. It requires new sub-scribers to do this, and in order to secure them, every present subscriber is constituted an agent to assist in that effort. The price of the RURAL WORLD is one dollar per year, which is cheap, considering the quantity and quality of the matter and paper used, but to accomplish our purpose we will allow every subscriber to send a new name with his own for one dollar, and he may add additional NEW names at fifty cents each, which is less than the actual cost of the paper. Renewals in no case will be re-ceived for less than one dollar unless ac-companied by the name of a new sub-

of things useful and things ornamental soon destroyed forever. If the people royed forever. If the people ry realized the value of such lity at its true worth there of the country realized the value of such citizens organized permanent institute an opportunity at its true worth there societies to be ready for the work new would not be standing room sufficient season. The work is thoroughly appreto accommodate the crowd that would clated by all and the closest attention

THE AUDUBON SOCIETY OF MIS

destruction of our feath-The ruthless destruction of our feathered friends, the birds, has caused such an increase of insect pests to the great detriment of grain, fruits, flowers and all vegetable life that the farmers of the state should be interested in the organization of the Audubon Society of Missouri because of the pecuniary interest to them, if for no other reason. The object of the society is as its motto, "Save the Birds," indicates. We are giad to note that from all ranks in life are the vice-

feel assured that the judge understands creased development of manufacturing, his business. It is really most encouraging to have farmers make such demands. and city industries, the partial belief that It augurs well for our agricultural interests. It also means that more of our farm boys will be given the benefit of agricultural training.

FARMERS INSTITUTES.

FARMERS' INSTITUTES.

revailed during the growing and harvest ing season of the crops of this first year of the new century have made farmers re than usually observant. Then, the decreased yields of the farmers' feeding crops of this Central West section have compelled farmers hitherto listless regarding some of the newer forage crops garding some of the newer forage crops, to give them more careful study. How to feed them, what is the result of feeding such crops, and how to grow them, and similar queries are constantly being asked. The Farmers' Institutes are giving this subject a large place on all programs Farmers should avail themselves of every opportunity to learn more on these and other topics of vital importance to the farm, and we are pleased to learn that the farmers of Missouri are awake to their privileges, as is shown by information sent us by Mr. C. D. Lyon, whom our readers have come to know so well, and who is one of the lec-turers at these Institutes. He says:

"The second week of our institute work There are millions of people within:
easy reach of Buffalo who have not yet
seen the beautiful Pan-American Exposition. This wonderful creation is soon
to fade away, to be preserved only in
memory, but such a remembrance should
brighten the reminiscences of every resideat of the near-by states. It is too
bad to see such a beautiful aggregation
of things useful and things ornamental

-Laredo-there was a fine show of live -Laredo-there was a fine show of live stock of all kinds. At several points the paid the speakers.

THE FARMER'S LIBRARY.

No class of people does more careful reading than do intelligent farmers, and

FARMERS' INSTITUTES

Editor RURAL WORLD: The first series of Farmers' Institute meetings, as announced in a previous issue of your paper, has been going on now for two weeks with splendid success. Interest in these with splendid success. Interest in these meetings is manifested among the farm-highest expectameetings is manifested among the farmers far in excess of our highest expectations. Two or three meetings have been reported where not less than fifteen hundred to two thousand people were present.

The second series of meetings will begin at
Bunceton, Cooper county, on October 14,
and from that time on two corps of lecturers will be employed and four meetings will be held daily, two in each series. The list of dates for the second series is as follows: ries is as follows:

es that will some day, perhaps allow the profitable introduction of American wheat, if not flour, all over France.

"So strongly organized is the French milling industry that the importation of flour presents a serious difficulty. L'As-sociatione Nationale de la Meunerie Fran-

caise was founded in 1886, with headquar

ters at Paris and at present it numbers between 3,000 and 4,000 members. So great is the capital invested in mills, and so strenuous are the efforts of this alliance

against foreign competition, that since February 27, 1894, the tariff on flour has been about double that on wheat, which condition enables the French to import wheat, grind it and sell it cheaper than imported flour. While Paris and a few of

the larger cities consume American flour this giant internal organization, the ex-cessive duty and Russian, Hungarian and

cessive duty and Russian, Hungarian and other competition prevent the possibility of any general introduction thereof. "The prospect for American wheat grows continually better. Against its

importation there is no prejudice on the part of the mill owners. The residue of the wheat is in demand for domestic animals and the grinding of it gives employ-

ment not only to the mills, but to the

FARMERS' INSTITUTES. Editor RURAL WORLD: A few days

Entor RURAL WORLD: A rew days ago a familiar sound, although not heard for a few months, came across the country, calling to mind the fact that the place is open where the training of the "young idea how to shoot" has begun. It is here that the young begin to learn the principles that will remain with them through the hope the precessity of

the principles that will remain with them throughout life, hence the necessity of laying the foundation with care. Although at all times I have an abiding interest in the education of the young, yet I seel that "the grown ups" and the older people of the farming class would be none the worse for having a few lessons. While reflecting upon this, here comes the RURAL WORLD, as if to strengthen my thoughts upon the far-

to strengthen my thoughts upon the farmers' education in announcing the Far-mers' Institutes to be held in many plac-

mers' institutes to be neid in many plac-es in Missouri. They are to be conducted by the best talent the state can produce. The subjects to be discussed will be those that most directly affect the farm. The bell sounds and the farmers' school com-

Bunceton, one day, October 14.
Pilot Grove, one day, October 15.
LaMonte, two days, October 15 and 16.
Holden, two days, October 16 and 17.

derness of high degrees, and have taken positions in the observatory car where a

in the shadow flower of the state of the shadow flower of the state of

Clark Co., Mo.

positions in the observatory car where a variety of pretty views present themselves as the journalistic train sails across the Flood Plain, the Hill country and the prairie ocean. This is an average good world.

But it seems that the world.

JASPER BLINES.

OKLAHOMA NOTES.

Editor RURAL WORLD: Since my last we have had a fine rain here. It proved to be, though, local, as persons residing a few miles west of us complain of not zetting enough. We have sufficient moisture to bring turnip seed up and keep the turnips growing. Late potatoes are also coming up and doing well. We hope to have a fair crop of each yet. Farmers are busy sowing wheat for pasture this winter. Some are sowing were soon in the region yeleped



STADIUM AT THE PAN-AMERICAN EXPOSITION

LaMonts, two days, October 13 and 15.
Holden, two days, October 13 and 15.
Holden, two days, October 13 and 15.
Holden, two days, October 13 and 15.
Martain, two days, October 13 and 15.
Martain, two days, October 13 and 15.
Martain, two days, October 13 and 25.
Marten, one day, October 23 and 25.
Lectors, one day, October 25 and 25.
Lectors, one day, October 25 and 25.
Michigan 15.
Michigan 15.
Michigan 25.
Mi

Editor RURAL WORLD: The drouth has been very severe in this county, and a few of our farmers sold off a good deal of their stock quite early, which should have been kept, as the catch crops which our farmers succeeded in getting planted after the July showers set in, have furnished a good deal of feed, especially the late corn. which will require from the tenth to the middle of October to mature. Should the killing frosts keep off that late it will make an abundance of feed for those who had the

65.97

its quality and purity, this hygienic method of handling gives the milk a fla-vor and sweetness that is not possible by

PRICE.—The price is 10 cents per quart

or 20 pint tickets for \$1. This we consider very low in view of the quality and the general advance in the price of milk which is being made on account of the

drouth. The pastures are burned up and

good milk cannot be sold at prices that have prevailed in the past.

TRY IT.—We want you to examine and test the sample of milk which we shall test the leave you on request. You will

like it, and you know that the best is al-

ways the cheapest, besides being the besi The milk we sell is uniformly the same as

the sample. Respectfully,
BEREMAN FARM DAIRY CO.

Normandy, Mo., Aug. 1, 1901.

H. A. BEREMAN, President and Man-

M'KAY TALKS ON BUTTER.

Prof. G. L. McKay of the Iowa Agricultural college has just returned from a trip through Europe at the solicita-tion of the Department of Agriculture at Washington. He left Ames about three months ago and visited Holland, Belgium,

Denmark and Germany, says the "Farmers' Tribune." He was sent there to

make observations in regard to the methods employed in the manufacture of which these countries excel. His obser-

vations will be published in a bulletin to be issued by the department. Theodore Gravert, a German, now residing in Ger-

many and a graduate of the dairy de-partment of Ames, accompanied Prof.

McKay, as an interpreter through Hol-land, Belgium and Germany. Prof. McKay says: "No subject inter-

ested me more than butter. I tested a

lot of butter in England for moisture

and the driest butter I found was from New Zealand, some of it running down to about 8 per cent. Danish butter aver-

ages about 15 per cent. Russia was very irregular, some very fine, but a good deal of it had a rank flavor. It will get over

es soft. It is dropped at onc

for a moment, then brought back and

worked one to one and a quarter minutes

This makes only two minutes of working When finished it is packed into kegs to the market. It is said that this metho-

butter co

feed is scarce and very high priced,

ordinary means.

179.5

The Dairy

DAIRY CATTLE MEN.

The dairy cattlemen at the Pan-Amerian Exposition met on Friday night,
September 20, at the New York State
Marble Palace. Many prominent stockmen from different parts of the country
were present and the meeting which followed war one of exposition of the country.

Written by Herbert Shearer.

lowed was one of exceptional interest.

Edward VanAlstyne of the Exposition
Model Dairy, acted as chairman, and
the meeting was opened by Mr. Converse. Every important breed of dairy was represented at the meeting by man VanAlstyne called first upon Mr. Gregg of Minnesota, who gave an interesting talk on what should constitute the good points of the dairy sire and the dairy cow. He elaborated on the necessity of bringing out strong constitutional points to support the important dairying elements, and that they should be bred for health, strength someone who is especially versed and in-terested in it particular line. Chair-man Vanalistyne called first upon Mr. Gregg of Minnesota, who gave an inter-

Mr. A. R. Eastman of Waterville, N.
Y., gave his experience in the English
markets and commented on the fact that
We have built a wall from below frost
We have built a wall from below frost he found very little American butter or American cheese in England. He had nquired the reason for this and had been cold that the dealers had not sufficient confidence in American goods. This Mr. confidence in American goods. This Mr. Eastman thinks is due to the vast amount of fraud that is practiced, and he further drew a parallel between the methods of doing business in the United States and Canada, and made the point that our Canadian friends make goods that will stand the test, that their dairy industry is based on future prospects.

tertaining talk on the manner in which the work was carried on in their Experiment Station. In his opinion a cow that does not yield 6,000 pounds of milk, or 200 pounds of butter per year should be gotten rid of. He had obtained the best results from helfers raised on the premsults from helfers raised on t

secretary of the Ayrshire Breeders' Asbreeding a distinctly dairy type of cattle with the ability to perpetuate their breed. He spoke disparagingly of the judges who award blue ribbons to dairy cows that have a preponderance of beef.

family consumption for the same on that the strong, vigorous, healthy enable the cows to furnish the best possible milk. The last advantage claimed for the Holsteins was beef value, which he thought was con-

found that she produces a large quantity of good butter at a small cost. While good butter at a small cost. While cream will not rise so quickly when milk is set, that objection vanished thin air when the cream separator was invented. Though not advocated for beef, the butchers like it, as they are in the loin and cut up well, and a good flavor. As a persistent milk-ne has no equal. There is, in fact, some difficulty in drying her off. He thinks the Ayrshires give the best re-

thinks the Ayrshires give the best results for the least outlay.

Charles A. Hills of Rosendale, Wis, represented the Guernseys and gave a brief history of their importation into this country, stating that not until 1870 was there any great number of Guernseys in the United States. He pointed with pride to the Guernsey record at the window frames with the door will shut tight against it without a jog or jamb, for the accumulation of dirt. There is no world's Fair, as well as the Pan-American Model Dairy, as demonstrating their of the suits of th

Mr. Clinton D. Smith spoke briefly on the questions that are being studied with ing 2x4 placed two feet apart for a rafter, interest at experiment stations in regard to breeding, of which very little is really known. He also elaborated some on the value of good sanitary conditions, the necessity of reliable health and the

HENRY E. ALVORD, Chief of the Dairy Department, Bureau of Animal Industry, upon leaving the Pan-Ameriited all recent expositions and exan the animals shown, but in no case had

Catarrh

Is a constitutional disease. It originates in a scrofulous condition of It often causes headache and dizziness, impairs the taste, smell and hearing, affects the vocal organs, disturbs the stomach. It is always radically, and permanently cared by the blood-purifying, alterative and tonic action of

tie. Mr. Alvord was at the Pan-Ameri can for the purpose of securing photo-graphs of representative animals to il-lustrate an elaborate work for the gov-ernment. Three hundred photographs were secured for this purpose, which un-doubtedly furnish the finest collection of the kind ever made.

CONSTRUCTION.-In stable construc tion the question of sanitation is comparatively new. Advanced stockmen have for years recognized the value to animals of plenty of fresh air without knowing exactly why.

y of bringing out strong constitutional stable may be built. In former articles must be support the important dairying ments, and that they should be bred health, strength and dairy qualities in the bealtowed to run to beef.

In. A. R. Eastman of Waterville, N.

to the upper surface of the cement floor. We do not wish to carry it any higher, because a difference in temperature beent tween the inside and outside of the wall

that will stand the test, that their dairy industry is based on future prospects, while Americans work for the greatest possible immediate profit.

Prof. Dean of the Experiment Station at Guelph, Canada, indulged in a few pleasantries at the expense of his United States friends, and then gave an entertaining talk. the Experiment Station of the Experiment Station of the Experiment Station of Canada, indulged in a few ches at the expense of his United criends, and then gave an engree talk on the manner in which overhead. The building should be constructed to the construction of the Experiment Station of the Experim

ses.

Mr. C. M. Winslow of Brandon, Vt., we feet apart; to enailed into the sill to sustain life and promote health. It is with a 2x6 plate, spiked on top; the studdent of the Ayrshire Breeders' Association, spoke of the importance of the importa

come.

Building paper must be used both inside The spoke disparagingly of the judges who ward blue ribbons to dairy cows that ave a preponderance of beef.

Mr. Hoxie of the Holstein Breeders' cold. This paper may be protected with Mr. Hoxie of the Holstein Breeders' cold. This paper may be protected with Association thought that there was cheap or expensive boarding at the option plenty of room for the different breeds, and that they were all valuable, and if we had a few more we would profit by the additions. He claims for the Holstein great vitality—the strongest in fact of any breed. He compared vitality with to reach the window and door frames, power the two terms being in his estipower, the two terms being, in his estimation, synonymous. He made no distinction between vitality and constitution to reach the window and door frames, which should be made just wide enough to fill the space between the flush sides of tinction between vitality and constitution enables a cow to make great records and to withstand severe climatic changes in which tion, as a good constitution enables a cow to make great records and to with stand severe climatic changes, in which case he thought the word hardihood was but another term for vitality or constitution. He recommended Holstein milk

be taken to lap the ceiling paper with the paper from the side walls to leave no space for the admission of air. All inside wood work should be dressed and free from any beading or projection so far as possible; this is to prevent the lodgement of dust, which is one of the main things to be carefully guarded

Window stools should be made so narwindow stools should be made so hargested. In the summer when it is difficult to gested the summer when it is difficult to gested. In the summer when it is difficult to gest the buttermilk out and to gested the condition, the unscruppious milk-have it clear, but it is probably intended have it clear, but it is probably intended have it clear, but it is probably intended to work the water into the butter as well.

GOOD MILK.—It is easy enough to produce good milk if a man has the knowl-butter will average 5 per cent duce good milk if a man has the knowl-butter will average 5 per cent duce good milk if a man has the knowl-butter will average 5 per cent duce good milk if a man has the knowl-butter will average 5 per cent duce good milk if a man has the knowl-butter will average 5 per cent duce good milk if a man has the knowl-butter will average 5 per cent duce good milk if a man has the knowl-butter will average 5 per cent duce good milk if a man has the knowl-butter will average 5 per cent duce good milk if a man has the knowl-butter will average 5 per cent duce good milk is motto must be cleanliness.

for one-third pitch or steeper.

The matter of windows requires careful consideration. They should be large enough and numerous enough to admit plenty of light and sunshine when required, but not sufficiently large to produce by radiation to great changes in Dairy Co, is endeavoring to demonstrate

| Weather. That is all there is to it: Clean asked for an explanation as to why he enough and numerous enough to admit liness. Good milk means cleanliness, cold and honesty.

| Want to make is that if a Dane is the time the cows were at pasture the did this thing or that he cannot tell you. How asked for an explanation as to why he grain ration was made up of three parts add this thing or that he cannot tell you. Put the same question to our butter making the time the cows were at pasture the did this thing or that he cannot tell you. Put the same question to our butter making the time the cows were at pasture the did this thing or that he cannot tell you. The average milk production in that year of sand they know why everything is was 7,20 pounds. There were 20 cows in done and what will result from their the complete the time the cows were at pasture the did this thing or that he cannot tell you. Put the same question to our butter making the did this thing or that he cannot tell you. The average milk production in that year of the parts of the time the cows were at pasture the did this thing or that he cannot tell you. The average milk production in that year of the did this thing or that he cannot tell you. The average milk production in that year of the did this thing or that he cannot tell you. The average milk production in that year of the did this thing or that he cannot tell you. The average milk production in that year of the did this thing or that he cannot tell you. The average milk production in that year of the did this thing or that he cannot tell you. The average milk production in that year of the did this thing or that he cannot tell you. The average milk production in that year of the did this thi

PAN-AMERICAN MODEL DAIRY. Report of the Test, Giving Totals of Each Herd Complete From the Commence-

nt of the Test May 1 Up to and Including the Week Ending September 17, 1901, Holstein 123.66 87.90 105.30 Shorthorns French Canadians 22213.4 26370.1 27.94 9.72 84.04 104.42 100.45 106.18 114.11

.25163.6 1049.15

dozen cows or the stock man with fifty or | While yet warm it is run through a cool-

Jerseys Dutch Belted Red Polls Brown Swiss

dozen cows or the stock man with inty or any number between these figures.

For a double stable, if long, the 2x6 inch plates should be doubled, though a single two-inch plate properly supported by the boarding, both inside and out, makes a very strong building, so solid, in fact, that the plate may be cut away to make cows are fed sweet clover hay, blue grass and childed dry. We have but one grade of milk and that is invariably served that the plate may be cut away to make cows are fed sweet clover hay, blue grass and childed dry. Will feed. In addition to room for the ventilators without any appreciable weakening of the structure.

With a building put up in this manner method of handling gives the milk a fla-

and furnished with fly screens, dark blinds, double doors and double windows, with all properly and carefully fitted, we have a stable which may be shut up practically air-tight, and one that would be a very unhealthy place for animals unless provided with a good system of ventila

(To be continued.)

MILK TALK.

The circular printed below issued by the Bereman Farm Dairy Company for distribution among their customers, contains so many points of interest to both pro-ducers and consumers of milk that we think it well worth publishing in full in our columns:

Let us have a little plain talk about

MILK AS FOOD.—Milk is a perfect food. It is nature's own. It contains in right proportions all the needful elements

COMPOSITIO	N		OI		M	IILK	No	rm
cow's milk is co	on	po	980	d	of	the	follow	vin
Water								86.
Milk sugar								4.
Casein (cheese)								8.
Fat (butter)								4.
Ash (salt, lime		an	a	0	the	r n	niner-	
als)		. :						0.

FOOD VALUE OF MILK .- Never forget that it is the "milk solids" only—the sugar, cheese and fat—that nourish. The sugar and fat furnish animal heat and muscular energy. They constitute the fuel of the human machine. They also supply nourishment for the fatty tissues of the body. The casein or cheese element supplies nourishment for the muscular tissues. All muscular tissues are made of

down tignt.

taken wherever joints and sills, and air flues, at the piates and sills, and pecially where the wall paper joins the ceiling paper. Careless workmen will need watching at such places. It is the numberless little details that determine the value of the stable when finished.

To secure proper warmth and ventilation a ceiling is provided 8½ feet above the floor. As a stable should in no case the floor. As a stable should in no case the floor. As a stable should in no case the foor storage overhead the ceiling heavy is and he must use his conscience. An ignorant or careless dairyman is an enemy to the race. His stables are fifthy, his conscience in the piate and he must use his conscience. An ignorant or careless dairyman is an enemy to the race. His stables are fifthy, his conscience and his milk pails and the pair are not properly cleaned, he feeds of it had a rank-flavor. It will get over that after awhile, however, and I believe that Russia will come to the front rapidly. Some of the highest selling butter was the French two-pound unsalted rolls. My experience with the Irish butter is that it lacks body, which results largely from the fact that it is churned at a high temperature. It contains lots of water, some samples testing 20 to 25 per cent moisture. This question is now better the English parliament and it seems very light. Joists 2x6 inches the race. His stables are flithy, his could find anything, and support her owners. Weighing about 600 pounds, she is considered a medium size, which for dairy purposes is eminently superior. They are always hungry, will eat all you feed them and make the best use of all they get. The quality of Ayrshire milk is good. It is particularly adapted for the milkman when there are so many milk. place.

The celling joists are spiked to the plates and rafters thus forming ties to strengthen the building. Building paper is tacked to the under side of the joists, and matched, celling nailed on below the paper. This celling may be of seven-eighth inch stuff or thinner. Care should be taken to lab the cells.

be such a vital subject that it deserves special chapter. Preservatives are borac special chapter. Preservatives are borac-ic acid, formaline, formaldehyde, etc., all poisons, and they not only keep milk from souring, but they keep it from digesting. poisons, and they not only keep milk from souring, but they keep it from digesting. They are antiseptics, that is, they retard chemical change. Milk that has been "preserved" remains in the stomach a heavy, inert mass and refuses to be digested. In the summer when it is difficult

teep sweet for several days even in hot I want to make is that if a Dane is weather. That is all there is to it: Clean-lasked for an avalance of a Dane is

consideration. They should be large to produce by radiation to great changes in Dairy Co. is endeavoring to demonstrate themperature. If possible, sunshine should be admitted into every corner of the stable. For this purpose and to prevent milk in sterilized bottles. All the milk and turing cold weather, it is better to have the necessary radiation of heat at night and turing cold weather, it is better to have the necessary windows so far as possible on the south or southerly side of the building.

A window should be provided in each gable end. These windows should work in grooves to slide easily up or down as the cheapest they could get because of the quality. You buy milk for the solids that are in it. You can put be opened or closed as required. Refersnce should be had to tha cuts for detailed instruction in the matter of places.

OUR POLICY.—The Bereman Farm dand honest, For the past of demonstrate that it pays to be clean and honest. For three years we have sold pure, wholesome milk in sterilized bottles. All the milk and the pays to be because of the subting comes from a Sioux City creamwing.

Prof. McKay says that the fight should a good article at a fair price. We never they milk in sterilized bottles. All the milk appears they milk in sterilized bottles. All the milk was the cheapest they could get because of the cullifure.

A window should be provided in each gable end. These windows should work in grooves to slide easily up or down as certain the solids that are in it. You can put be opened or closed as required. Refersnce should be had to tha cuts for detailed instruction in the matter of placesnce should be had to that cuts for detailed instruction in the matter of placesnce should be had to that cuts for detailed instruction in the matter of placesnce should be had to that cuts for detailed instruction in the matter of placesnce should be had to that cuts for detailed instruction in the matter of placesnce should be had to that cuts for detailed instruction in the matter of placesnce should be pro

It often causes headache and dizziness, impairs the taste, smell and hearing, affects the vocal organs, disturbs the stomach. It is always radically and permanently cured by the blood-purifying, alterative and tonic action of two wos of stalls, one on either side, single stables with one row of stalls may be built from the same design; in that conscruding or the scrotulous habit.

Hood's Fills are the best cathartic.

The professor visited Holland and sought to find out the secrets connected with the making of fancy cheeses. He was more than pleased with the results of his investigation of the subject and will explain all fully in a special buller to find out the secrets connected with the making of fancy cheeses. He was more than pleased with the results of his investigation of the subject and will explain all fully in a special buller to find out the secrets connected with the making of fancy cheeses. He ment we will have space for a brief summary only of the things we do to produce the best mik that is sold in the city of St. Louis. Our herd—mostly Jerseys—has been inspected and examined for good the single stables with one row of stalls may be built from the same design; in that case, of course, the building would be but little more than one-half the width. The design of these articles has been to accomdate the small farmer with one-half.

FEEDING FOR RICH MILK.

The belief that milk varies in richness according to the food the cows eat stil according to the food the cows eat still obtains among dairymen whose observa-tions are based upon little practical test-ing in that direction. Experiment station workers after long and exhaustive tests have decided over and over again that food does not increase richness, but that the fat quantity depends upon the individ-uality of the cow, though from day to day varying as the result of difference causes that work on the cow's nerve

eview" writes again on the matter as In England the dairy authorities seen

the English for this ignorance, for the have little help from the government in ccess to reports of our experiment sta ns, yet have passed a law virtually delaring that the fat in milk is incre or decreased according to the components of the feeding material. A law is ac tually in force reducing the necessary and legal fat limit .5 per cent during the months of May and June. They did this under a belief that during those two months the succulence of the feed is such that the fat content is lowered in the nilk. It is evident that the Ohio law as nade is "not according to knowledge." Twenty years ago nearly all farmers nd educators believed that feeding a ich food made rich milk, and feeding oor food made poor milk. But since that ime experiments in Europe and the United States have clearly shown that the

well-nigh universal belief was wrong and that milk cannot be made to contain more fat by the feeding of fatty foods. When a large amount of fat is fed, the COW nomy takes a certain per cent of it and laborates it into milk. All the fat in the food, in excess of the certain per cent, is discarded and goes off in the excrement. Therefore if they feed a food too rich in fat let them know that they are enrich ing the manure and not the milk. The "certain per cent" spoken of varies in different cows, and refers to capacity to elaborate butter fat, which capacity can be measurably increased only by judicious selection and feeding. To what ex-tent blood and milk are identical we do not know, though some investigators have expressed the opinion that milk is merely blood held in suspension. Whatever may be the truth regarding this, it emains true that both tend to show cor stancy in their composition. This con-stancy is very necessary; were it not so the blood might so vary within a short time as to cause a complete collapse of the whole system.

HOW TO TRAIN A CALF.

Some of our advanced dairyman differ greatly in their opinions on how to manage the calf immediately after birth. One man says: "I prefer to take the calf nway as soon as born rather than be troubled caring for sore teats of the cow. Use for convenience a shallow and broad netal pail, milking for a large calf three quarts, for a small calf about two quarts quarts, for a small calf about two quarts of milk. Then, after gently caressing the calf, stroking the neck or back with the hand or talking kindly to it, place the milk under its nose and the fingers touching the lips, but not in the mouth; soon it will begin to try to get hold of your fingers; then gently push its nose down into the milk, and in its efforts to get plot of your finger it will get a taste of the desired as the formula of the milk and in its efforts to get the calf of the calf fingers; then gently push its nose down into the milk, and in its efforts to get hold of your finger it will get a taste of the milk and is very apt to drink. A little patience and kindness will meet with suc-cess. After it has been taught to drink you will find it much better to always place it in a stanchion at feeding time and let it remain there a short time after it gets through eating, so that it will not form the habit of sucking the calves' ears." Some others prefer to let the calves remain with their mothers un-til they are three or four days old. Probably the latter has more followers than the former. It is evident that either proneeding gives good results and may be idopted without detriment to the future welfare of the cows.

WHAT A GOOD COW WILL DO.

We quote the following from a pamph-Sharples, West Chester, Pa.:
The Cornell University herd of cows mostly grade Jerseys and grade Hol-

steins), in the year 1874 averaged a little more than 3,000 pounds of milk per cow. endants of these same cows nov

the herd says this increase of two and be removed and the churn thoroughly one-half times in the milk product "is the rinsed with cold water. After cold water dam, together with careful feeding, and

with pride to the Guernsey record at the World's Fair, as well as the Pan-Amperlcan Model Dairy, as demonstrating their
capacity for producing a large quantity
of exceedingly fine and highly colored
therefrom above the cost of their keep,
he mentioned especially the high color
flavor.

Mr. Clinton D. Smith spoke briefly on
the questions that are being studied with
ingests at experiment stations in reingest and the product of the course of the course of the course of the course of the manure carrier is suspended from
the questions that are being studied with
ingests are greging at a gregories at pounds roots, 8 pounds grain. "During the time the cows were at pasture the

The Twice-a-Week Republic

is the Greatest and Best of all Newspapers,
Its Telegraphic and Cable News Service excels that of any other paper.
It prints the new news fully; not imaginative occurrences, but domestic and world-distant facts. Now is the time to subscribe for the best medium keeping in touch with the whole world. It is DEMOCRATIC in politics, but distinctly a NEWSPAPER and Family Journal.

REMEMBER

THE SUBSCRIPTION PRICE of \$1.00 gives you two papers each week, 104 papers a year. It is printed every Monday and Thursday. Address all orders to

THE REPUBLIC, ST. LOUIS, MO.

Rural World and Republic, either address, both for \$1.50 net.

Invincible, Unsurpassable, Without a Peer."

Writes a regular subscriber, who has read it for many years, of the

St. Louis Globe-Democrat

and this is the unanimous verdict of its more than half a millio COMPARISON, the biggest, best and cheapest national news America. It is STRICTLY REPUBLICAN in politice, but is gives ALL THE NEWS promptly, accurately and impartially, if Farmer, Merchant or Professional man who destract to heart rmer, merchant or Proceedings while its great various to read a large daily paper, while its great various to VALUABLE HOME AND PAMILY PAPER.

Two Papers Every Week. One Dollar For One Year.

Eight Pages each Tuesday and Friday. Sample Copies Free.

GLOBE PRINTING CO.,

ST. LOUIS, MO. Rural World and Globe-Democrat—Either Address, Both for \$1.50 net.

good cow can and should produce over 5,000 pounds of milk a year; and over 200 pounds of butter a year, that over zw the United States is less than 3,000 pounds of milk. Dairymen have in the Babcock test a simple, cheap and infallible way of learning the comparative value of their ows; and there is no excuse for keeping cows in any dairy which produce less than the cost of their maintenance. Ev-ery cow stall should yield cash dividends, Scales have a place in every cow stable,

skill, as it has an important effect on the amount and quality of milk given. Dairy men know that there are as great differ-ences between milkers as between cows and that cows will do much better with ome milkers than with others. Indeed good cows are often almost ruined by poor The milker should avoid handling th

cow more than is necessary, and he should make it a rule to do his work quickly and thoroughly. He should never go from a sick to a well cow withou first cleansing his hands. The habit of wetting the hands with milk is filthy in the extreme and should never be prac-ticed. Some people think it is necessary, but this is a mistake. The hands should be kept dry. If they are not, it is imporsible to prevent drops of milk from con-stantly falling from them into the pail says the "Farm, Field and Stockman."

tails little loss, as the first milk drawn is always poor in butter fat, and if it hap-pens to be badly contaminated, as is fre-quently the case, much injury and trouble may be saved.

CLEANING DAIRY UTENSILS.

Prof. G. L. McKay, Iowa.—All tinware used in creamery work should be first washed in warm water to remove the milk, then they should be thoroughly scalded, dried and placed where the all can circulate around and through ther water than to steam them as in this manner they will be thoroughly heater through and the metal will evaporate the ing, as it does not heat the metal enough to cause the water or moisture to evaporate. Never use hot steam on the bear ings of any machine. The common mis take in creamery work is not heating water enough to melt the grease. Good scrub brush and a strong arm to operate it will bring about the desired This remarkable improvement has been secured "by the use of pure bred bulls and a rigid selection of the best heifers."

In washing churns, use lots of clean secured "by the use of pure bred bulls and a rigid selection of the best heifers."

In washing churns, use lots of clean to washing church washing churns, use lots of clean to washing church washing churns, use lots of clean to washing churns, use lots of clean to washing churns, use lots of clea

PRICES.

Do you need Feed Cutters, Feed Mills, Feed Cookers, Cider Mills or any Farm Machinery? We can have you Big money and furnish you first class goods. We have been 40 years in this Business and solidic correspondence. Address, H. REINSTEDLER IMPLEMENT CO., Nos. | 104 to | 108 N. 3rd St., ST. LOUIS MO.



FRENCH BUHR STONES.





FENCE STRONGEST

YOU CERTAINLY WILLS THE ADVANCE FENCE







Kentucky Aluminum Stock Label. The best, lightest, most secure, easiest put on and the cheapest. For description and sample address F. H. JACKSON & CO., Winchester, Ky.



FARMS.

Oklahoma lands for sale. SEAWELL & VANDERGRIFT, Hobert, O. T. \$10.00 PER ACRE will buy a five (\$00) hundred acre located on railroad in Independence County, Ark., near a cotton seed oil mill. Apply to C.P. VAUGHAN, Sulphur Bock, Ark.

OPP OUR FREE LIST of Parm Bargains. S H. Morton & Co., Gen. Land Agts. Agricult-ural, Mineral, Coal and Timber Land. Office, 831 Lancoln Trust Building, St. Louis.

1600 ACRES IN BODY grazing or fruit land How-the Big Bed Apple and the Luscious Jelly Peach.— 18400 buys it if sold at once. Title perfect. Leoyer-Room 27, laker Bids., Springfield Me

Don't Rent

Establish a

Home of Your Own

d "THE CORN BELT," a hand monthly paper, beautifully illustrated containing exact and truthful informa-tion about farm lands in the West Send 25 cents in postage stamps for year's subscription to

Horticulture

THE WINTER MEETING

J. E. MAY'S FRUIT NOTES.

Editor RURAL WORLD: We have learned one or two things this summer at least. We have found out that we can raise apples and peaches without much rain if we cultivate. Our young orchard, six years old, has 200 to 300 bushels of fine apples in it, and they are worth \$1 per bushel. Had we known at time of setting the orchard what we do now, we would have used Missouri Pippins as fillers, and they are young the orchard what we do now, we would have used Missouri Pippins as fillers, and to the orchard what we do now, we would have used Missouri Pippins as fillers, and to the Soome by intelligence and time to time. Some by intelligence and have used Missouri Pippins as fillers, and now had 1,500 or 2,000 bushels of apples this year, as every Missouri Pippin tree is full. We don't like the tree, and the fruit is only medium in size, but good in quality. Were we planting again we would use them for fillers and let them bear two or three crops and then cut them out. We still think the contract of the second of the s bear two or three crops and then cut them out. We still think the Ben Davis the best apple for this section, all things

Strawberry plants are showing up better than we expected, and we may get a fair crop next season. I have been at work filling in the vacant places in our new bed. We will have two acres to pick next season. I have not touched the old beds since picking except to mow them off, and this fall pull out any weeds that had come up. They look now as if they would make a crop, and as they did not bear heavily this season, I think the berries heavily this season, I think the berries will be good in size. Grapes are almost be good in size.
entire failure with us.

J. E. MAY. Adair Co., Mo.

WINTER MEETING

Of the Illinois State Horticultural So-

Editor RURAL WORLD: The officers charge desire to make the coming meeting of the Illinois State Horticultural specify, to be held at Champaign, Ill., Dec. 19 to 12, 1901, a notable one in attendance, as well as in other respects.

The program will be the best that we can make, the subjects timely, and the

akers well informed on their respective topics. The premiums offered for the exhibit are liberal, and will bring out a fine display of seasonable fruits and vegetables. The University has a large tine of machinery, and this with the spe-cial exhibits of tools and appliances and spraying machinery, will give a good op-portunity to see the latest improvements in these lines. The University also has a fine collection of wax models of fruit which is worthy of inspection and study

children or friends attending the University, and to investigate the grand facili-ties which it offers for obtaining an ag-ricultural education, as the meeting comes at a leisure time of the year for horticulturists, and special attention will

number of persons will avail themselves of the reduced rates if they are ob-L. R. BRYANT, Secretary.

A TRIO OF PEACHES.

winter of 1898 and '99 the tender branches be only a seedling. I gave it a severe heading in, taking out all dead wood and some of the live; cultivated it well and nunted for its enemies. I was surprised when I learned that I had been trespassing upon a Mountain Rose. I still gave this tree of my adoption loving care. When I cooked corn or onions I poured the boiling water upon the trunk and ne by making a very vigorous growth In the fall I looked it over carefully and

This tree received no harm from freezing the following winter, and during the next growing season it improved and bore two or three peaches. This season was the crowning glory of all, for the Last year they sold as high as \$29.60 tree bore a large crop of fine fruit-large worth of strawberries in one day and Mrs. rosy cheeked and white fieshed, juicy and Besterfeldt picked over 100 boxes of ber sweet. The skin could be taken off heat-ries a day and did the cooking and house from worms that it could be safely eaten and keep them there until October 10, in the dark, and all who partook of its Pike Co., Mo. MARK W. WOOL unite in singing the praise of

ELBERTA-An Elberta, planted at the same time as the Mountain Rose, is not so large a tree, but bore well this seaon. The fruit was large and fine, with w fiesh, but we preferred the Moun-Rose as a dessert fruit. ROSBY—The Crosby, planted the

while there are few spe e seedling trees that are not in-tith them? Insects dislike many odors, and it may be on account of the smell from bolled vegetables, or soap suds, that kept the moths from deposit-ing their eggs, or our more frequent visits to these trees drove them away.

Peoria Co., Ill. MRS. L. HARRISON.

FRUIT FARMING

In Northeast Missouri.

Editor RURAL WORLD: The soil of ciety.

Editor RURAL WORLD: The 44th annual meeting of the Missouri State Horticultural Society will be held at St. Joseph, Mo., December 3-5, 1801.

Program and details will be sent later.

L. A. GOODMAN.

Kansas City, Mo. the uplands of Pike county, Mo., is pecu-liarly adapted to the growth of all kinds a distance to be excellent. Your scribe visited a new fruit place set out lately as reported below: Solomon says "A good name is rather to

Editor RURAL WORLD: We have be chosen than great riches." We agree

purpose.
Mr. James Madison Besterfeldt of the
Besterfeldt and Downing small fruit farm
is a character of the latter type. He and
his good wife came here from Jersey county, Ill., some three years ago and bought a broken 40 acres of land just back of Bowling Green on the north, and after paying for it had 35 cents in money left. They went to work, cut off the timcleared and cleaned it up and set out the first year 44 apple trees, 330 peach trees, 100 pear trees, 100 plum trees, 75 gooseberries, 75 currants, 300 grape vines, 1,500 blackberries-1,000 bearing and 500 verbearing-one-half acre of strawberthis work they did the season of 1886-breaking, plowing, cultivating, nursing, watering and trimming-much of it being done after night; one of them holding the lantern while the other set out the trees and plants. During the year 1899 they cul-tivated the 715 trees already set out the year before. The half acre of strawberries and the half acre of raspberries were picked and marketed, and the 1,700 small fruits were carefully worked and dressed, that were set out the year before, and be-sides they have added to their orchard this year 250 apple trees, & Kieffer pear trees, 365 peach trees, making a total of 1,355 fruit trees and 2,000 small fruit plants

on this original 40 acres of land.

In the year 1900 they made another purchase of 60 acres of land adjoining the 40 at a cost of \$30 per acre—shouldering a debt of \$800. On this 60 acres they set out 1,250 apple trees, 228 peach trees, 70 pea trees and added one acre and a quarte more to their strawberries, making them selves now an orchard of over 2,900 tree of the very best varieties of standard n these lines. The University also has a fine collection of wax models of fruit with two and one-quarter acres of small fruits. This year they have added a nursery stock of 15,000 apple grafts, 2,000 this will be a good opportunity to visit by the standard that the University of the standard of the st Some Lowry, and for Mr. Ike Stevens an orchwe desire to make arrangements for special reduced rallroad rates, that will be liberal and positive, and to do this it is necessary to know that a sufficient number of persons will await the surface. swine and the Belgian hare. In the poultry line they raise the pure white thor-oughbred Plymouth Rocks and Buff Ply-mouth Rocks. The Poland-China is among their bure bred swine, to which they have added a Duroc male hog, and also the pure blood Belgian hare.

ditor RURAL WORLD:

MOUNTAIN ROSE.—During the severe driter of 1888 and '9 the tender branches the contract of the first work illed. When the trees students of nature. Mr. Besterfeldt is a students of nature. winter of 1888 and '99 the tender branches of peach trees were killed. When the trees leaved out in the spring I noticed one, not far from the kitchen door, that contained much dead wood, and thought that I would experiment with it, imagining it to be only a seedling. I gave it a severe be only a seedling. I gave it a severe chance to grow them. He manures, which is sclons in the ground and wait for chance to grow them. He manures, and the manures, which is sclons in the ground and wait for chance to grow them. He manures, and the manures is sudents of nature. Mr. Besterieur is a students of nature. Mr. Besterieur is a student of nature. Mr. Besterieur is a students of nature. Mr. Besterieur is a student of nature. Mr. Besterieur is a student of nature. Mr mulches, cultivates with the best farmmulches, cultivates with the best farm-ing implements, prunes, trims and dresses till his product becomes a thing of beau-ty and a charm to the eye of the behold-er. His team draws a load of wood to market and returns to the farm loaded with barnyard manure. He averages 250 the boiling water upon the trunk and around the roots to destroy the eggs or young larvae of the peach moth. Occasionally the boiling suds of the weekly wash was used in this way. It thanked wash was used in this way. It thanked burners of air slaked lime, hauled from wherever gum was found this was removed and a search was made for borers. When found they were destroyed and the wounds made were cleaned and filled with soap. rabbits and borers from invading the bark

the fingers without the aid of a keeping besides. They manage to have The fruit was so perfect and free ripe strawberries on the table by June 15 MARK W. WOOD. Pike Co., Mo.

FORESTRY. clety.)

Forestry is in the United States one not nearly so good as some seedlings.

Will some of our horticultural writers tell us why the fruit from the Mountain Rose and Elberts trees was free from enacted by the national government and charge of the general land office of the various states, many wise but some oth- Interior Department, while the study

different treatment must be given; was just and right a century ago need the apple tree seedlings used in the United States for grafting purposes are present time. In pioneer days forests grown near Topeka, Kas. Shawnee Co., were as free as water. It was necessary to destroy them in order to make room for homes, and the destruction has conformation and the destruction and the destruction and the destruction has conformation and the destruction are present the matter ones. Simply write me and the term of the smaller ones, and the term of the smaller ones, and the destruction and the destruction and the destruction and the destruction are sufficient treatment ones, and the destruction are sufficient treatment ones, and the destruction and the destruction and the 700 acres devoted to the raising of these seedlings.

For homes, and the destruction has continued in a greater or less degree to the present time. The clearing of the formula time the clearing of the formula time. The clearing of the formula time the clearing of the formula time. The clearing of the states have attempted to encourage ests in the early days caused little or no

Big Sheaves esult from the use of fertilizers con taining liberal percentages of Potash

OUR BOOKS are not advertising cata-ogues, but are scientific publications, written by agricultural authorities. We mail them free to farmers upon request. Send your same and address to GERMAN KALI WORKS, 93 Nassau St., New York.

amiliar with the situation. pon the physical world; and second ecause of the growing scarcity of tim-

per for use in the industries.

With reference to the first, there is no question but that forests modify temperature, influence rainfall and help hold n place river embankments. In this conction allow me to quote from an address by the Hon. D. R. Francis: "The Missouri River 25 years ago bore upon its turbid waves the commerce of sev-eral populous and productive states; tolay no craft drawing three feet is justided in attempting to navigate 100 con-ecutive miles of what was the mighty Missouri. The denudation of the forests which protected the sources and head waters of that magnificent stream has

been a sacrilege—a crime.

"Fertile fields whose productiveness was unfailing and unsurpassed when nurtured by the sure and steady flow of the great river are now untilled and neglected because of the sudden and untimely melting of the snows when unprotected from the rays of summer sun, causes over-whelming floods, which in their precipitus course inflict enormous loss and even ndanger human life to be followed by ong seasons of destructive drouth."

In the second place the destruction is

attaining such proportions as to be keen ly felt in all timber consuming industries The supply would soon become exhausted were it not for the various methods of prevention now being inaugurated against further destruction. But I am not to elaborate on this phase of the question out on that other part-what should be our forestry policy. In the first place the present forest area should be preserved, then properly managed and also added to. To meet these requirements nationa and state control is essential. Already some 50,000,000 acres situated in the north western states have been set aside by the national government as forest reserves. The states of New York and Pennsylvania have secured title to more than million acres and some other states les mounts. The possession of these areas a step in the right direction, but furth er steps are as essential. The govern-ment reserved its forests at the sources of several important rivers largely for the protection of the latter, and has, not yet inaugurated measures for their manage-ment on forestry principles, though ample protection is afforded against vandalism and fires. Instead of these forests being an expense to the government they should be yielding a revenue as soon as the prin-ciples of forest management can be pu-tin practical operation. The principles are new-are only in the experimental stage with us—and progress must necessarily be slow. With well trained, scientific and business men in charge, men who are accharge, men who are acusiness men in charge, men who are ac-uainted with all branches of the details, vast quantity of timber might be reoved and young growths protected, altogether practicing a system of rotation which would produce a regular and perpetual supply. Many examples might be cited in support of such a plan, especially in European countries, where variou systems have been in vogue for centuries in our own country Mr. G. W. Vander olit's place at Asheville, N. C., furnishe the best example of such a system. He began about 1892 with some 4,000 acres and has since added about 10,000 more I am informed that it is being conducted on a profitable basis by practicing a system of rotation and removing only

ing from the forest nursery.

The state of New York is introducing a similar plan in her possessions in the Adirondack and Catskill region in connection with its school of forestry. The

merchantable timber and protecting the young saplings or in many cases replant

In addition to the forests already men tioned, there is about twice this area owned by other private parties and cor-porations, many of which are neither protected nor managed on economic forest principles. A large part is in small scatered tracts, while a portion includes thousands of acres in lumber regions of the north. Fire is the most destructive agency, and for the most part lumbermen have not exercised sufficient care in pro-tecting the woods from such destruction. The census report for 1880 gives the total (Read Before the Summer Meeting of the Missouri State Horticultural Sosuch an annual loss and no provision for enewal a few years more will find our forests bereft of her forests. The owners

various states, many wise but some ourerwise. Many investigations are being
the conducted to determine the proper solution of the problem, all of which are
of Agriculture in which all of the trained

Pear trees require food in order to raise large, luscious fruit. Manure them freely.

The clearing of the forest areas in the early adays caused little or no injury, but that same practice to-day justly causes more or less concern to all

on condition that a certain number of trees in a specified manner. Thousands of acres have been planted as a result of this impetus. But where lands will yield larger returns by other means the weres should not and cannot be expected or grow forests. Moreover if a man owns orests and finds it more profitable to KETING HIGH-GRADE HONEY. emove the timber and grow other crops he should have the liberty to do so. In fact, it would not be economy to do otherwise, either for the government or the private citizen. There are sufficient areas on which forestry may be made to yield the greater profits and most of these tracts may be purchased at very low rates. This, it seems to me, is the sum and substance of the whole matter. Let those forests be weeded out where more profitable crops can be grown, but let it be done gradually and judiciously.

Protect those which are best situated and which can best be managed and let others be established in the arid regions of the west and abandoned farms of the east if there are such that can be utilized and which can best be managed and let others be established in the arid regions of the west and abandoned farms of the east if there are such that can be utilized for the purpose. Returns from new forests must necessarily be so slow that the average man does not care to wait so long, even though there be profitable returns. Let the government secure a still greater acreage and manage, together with what they already possess, on a ra-with the same and the state of the soil, which we usually term eatables. They may be the direct leam state. They may be the direct lem, it is productions, such as grain, vegetables, fruits, etc., or the more indirect, like milk, butter, chickens, ets.—all are improved by a little extra care in preparing them for market value of most all the products of the soil, which we usually term eatables. They may be the direct like milk, butter, chickens, ets.—all are improved by a little extra care in preparing them. greater acreage and manage, together with what they already possess, on a rational business basis and co-operate with the individual, the sum of which will redound to the honor, glory and prosperity of our country, her people and for all time to come. H. C. IRISH, Mo. Botanical Garden, St. Louis, Mo.

has refused an offer of \$50,000 for the apples he has hanging on his apple trees in Kansas. The proposition was made by C. O. McDonald, representing Patrick Glea-

tigation," he said, "that my crop will be worth several thousand dollars more than the amount is proposed to give."

Mr. McDonald expressed the opinion af-

nouse he represents was based upon ob-ervations he had personally made in all be exactly the same, if the section

other man in the country "For seven years I have spent the It would not be prudent to market greater part of each summer visiting or-chards, and making estimates regarding crates; it will reduce the price of the arthe value of their crops for Patrick Gleason," he said. "During the last few weeks in ave been in Kansas, Missouri, Ne-braska, Colorado, Oregon, California, labor during the season to produce his west Virginia, Pennsylvania, Maryland crop of honey. Crates should be made and New York, and have bought at least as neat and tasty, as mechanical skill and one crop in each state and in some several reasonable expenses can make them. If can come so near telling how many barrels will be gathered from a certain orchard. Well, I don't always come near the material from some reliable beekeepit. I go out and look over an orchard, ers' supply establishment. They are p just as another man looks over a horse, and then I guess what it's worth. Sometimes I miss the mark widely; but, like a good judge of horses, I usually come pretty near it. New York, of course, has the best crop of the season," said Mr. one point, nowever, I wish to emthe best crop of the season," said Mr. phasize, and that is to make provisions McDonald. "New York always leads on apples. But I have found as good ones in Kansas and Missouri as in any other kansas and Missouri as in any other place in the United States. No man has finer apples this year than Ben Coombs, the groceryman dislikes to deal in these Dry weather has affected the crop some. The 'big Missouri red apple,' raised in the southern part of that state, will not be much in evidence. The crop in that part but a barrel will cost about \$1.50."

has cold storage facilities this year for placed in the bottom of the crate. The many.

I Will Cure You of RHEUMATISM. No Pay Until You Know it.

After 2,000 experiments I have learned how to cure Rheumatism. Not to turn bony joints into flesh again; that is im-

of Dr. Shoop's Rheumatic Cure, for every druggist keeps it. Use it for a month, and if it does what I claim pay your druggist \$5.50 for it. If it doesn't I

The Apiary

ance is especially desirable and help raise the market value of most all the

with the times and successfully \$50,000 WORTH OF APPLES ON HIS
TREES.

According to the Kansas City "Journal" Mr. B. F. Coombs of Kansas City condition to take advantage of the different honey flows as the quicker section cases are filled and finished, the finer the appearance of the honey. All appli-ances and everything connected with the son of Le Roy, N. Y., who is known as production of surplus honey (comb hone the "Apple King." Mr. McDonald indi- in particular), must be of the right kind cated that he expected the deal to be managed right-made, but Mr. Coombs stated still later ly and at the proper time. Honey should that he had decided not to accept the offer. fer. ished; it will not improve, but may
"I have concluded after careful inves- ly impair its fresh, neat and inviti-

ter having visited twelve apple growing conscientiously sorted. It is not sufficient to have the same grade of honey by itwill be more valuable than that of any self, but the sections should also be sorted in regard to what we might call their machanical construction. Sections that Parker, Kan.; 500 acres at Lane, Kan.; mechanical construction. Sections that and 460 acres at Willow Springs, Kan, It are filled and capped clear to their boris estimated that his entire yield will exceed 30,000 barrels. He will harvest 40 the same crates with those that have car loads of Jonathans alone. No other man in the world will have so many. His The contents of a crate should be so trees vary in age from 7 to 14 years and uniform in every respect that any section nclude the Jonathan. Ben Davis. Win- may it be drawn from the face tier, the ap, Missouri Pippin and a few other va-leties. Mr. McDonald's estimate of the uncount the crop would be worth to the louse he represents was based upon obthe Coombs orchards. He has been Mr. ont uniform in construction, causing a Gleason's chief buyer for seven years, variation in weight and appearance, it and he can come as near to telling how will have a tendency to produce dissatisment of the company barrels of apples are hanging from trees on a given number of acres as any dealer as well as between retail dealer and consur

ticle from one to two or three cents pe

of the state is almost a failure. Taking inset, or box is used. It is made of a the country at large, there will be less sheet of heavy manila paper, one inch than two-thirds of a crop and prices will be a trifle high. There will be little if any difference from former years in the right angles, the corners turned and the prices at fruit stands and grocery stores; sheet placed in the bottom of the crate, it but a barrel will cost about \$1.50."

Mr. Gleason, whom Mr. McDonald represents, handled 253,000 barrels—\$1,000,000 worth—of the kind of fruits last year. He 300,000 barrels, and expects to handle that are one-fourth by three-fourths inch sticks, running crosswise of the crate and fastened with glue or small wire nails at such distance that each one of the center ones may serve for two tiers of center ones may serve for two tiers of sections to rest on

It is customary and the market de-mands, that honey crates be glassed, at least on one side. It not only improves the appearance, but it also enables the dealer to examine the goods being obliged to open the package

WINTERING BEES.

bony joints into flesh again; that is impossible. But I can cure the disease always, at any stage, and forever.

I ask for no money. Simply write me a postal card and I will send you an order on your nearest druggist for six bottles middle state CROSBY—The Crosby, planted the same time as the others, has not proved inheror. Last season and this it bore one peach, a miserable, ribbed yellow affair, not nearly so good as some seedlings.

Will some of our horticultural writers the limit from the Mountain with the future prosperity of our cell us why the fruit.

Forestry is in the United States one do not find it to their interest to give the required protection, and, indeed, the work is so extensive and the effect so farreaching as to go beyond the duties of the subject depends in a great measure, the future prosperity of our cover at least four Langstroth danger. I use no such drugs. It is folly to take them. You must get the disease pounds of good ripe heavy. If leathing the country is not necessary in the United States one do not find it to their interest to give the required protection, and, indeed, the work is so extensive and the effect so farreaching as to go beyond the duties of the individual and the necessary protection should be afforded by the government.

The first requires more experience and watchfulness, says a writer in the "Farm Journal." The first requisite necessary the individual and the necessary protection and, indeed, the work is so extensive and the effect so farmeaching as to go beyond the duties of the individual and the necessary protection should be afforded by the government.

Will some of our horticitural writers of the will pay him myself.

I have no samples. An our production affect Rheumatism with but a few for successful winter is to have bees the individual and the necessary protection, and, indeed, the work is so extensive and the effect so far affect Rheumatism with but a few for successful winter is to have bees the required protection, and, indeed, the will pay him myself.

I have no samples as to go beyond the duties of the required protection, and, indeed, the will pay him myself.

I have no samples as to go beyond the duties of the required protection, and, indeed, the individual and the required protection, and, danger. I use no such drugs. It is folly frames. They should have from 20 to 30 to take them. You must get the disease out of the blood.

My remedy does that, even in the most difficult, obstinate cases. No matter how impossible this seems to you, I know it and I take the risk. I have cured tens of thousands of cases in this way and my records show that 30 out of 40 who get those six bottles pay, and pay gladly. I have learned that people in general are honest with a physician who cures them. to or the problem, all of which are making satisfactory progress.

While forestry is one of the newer problems in this country it has been practiced. It is gratifying to know that steps lems in this country it has been practiced for ages. Conditions have changed and different treatment must be given; what different treatment must be given; what

Dietz 19 Globe Street Lamp

Burns kerosene without a chimney. Extra large fount, holds oil for 24 hours burning. Has self-extinguishing device, automatically turning out light at hour desired. Yields abundant white light without smoking, is safe, cleanly and reliable in any wind. Will make a gas street lamp look dim.

If not sold by your dealer, write direct to the makers for special price delivered, and free catalog of lamps and lanterns.

R. E. DIETZ COMPANY, 92 Laight Street, New York City. Established 1840.

NEW RIVAL" FACTORY LOADED SHOTGUN SHELLS outshoot all other black powder shells, because they are made better and loaded by exact machinery with the standard brands of powder, shot and wadding. Try them and you will be convinced. ALL . REPUTABLE . DEALERS . KEEP . THEM

Burlington Route

THELINE DENVER.

ST. LOUIS TO DENVER.

SCHEDULES

NO. 5. "NEBRASKA-COLORADO EXPRESS." NO. 15. "KANSAS CITY-DENVER EXPRESS."

THE BEST LINE TO THE ROCKIES. VERY LOW COLORADO EXCURSION RATES ALL SUMMER.

For illustrated publications on Scenic Colorado, her health resorts, stopping places, railroad rates, etc. apply at City Ticket Office, Burlington Route, S. W. Corner Broadway and Olive Street, or write the General Passenger Agent, 569 Pine Street, St. Louis, Mo.

the bees will go out for a cleansing flight. fter which they will be able to stand nother month of rigorous weather. With cellar winter I have had no experi-

ence, but the conditions necessary thereto are to have a good ventilated cellar kept dark, with an even temperature of above 45 degrees. Some time in Novem-ber, right after the bees have had a good flight, remove them to the cellar, selecting the time toward evening. The bee should be handled as gently as por to keep them from filling themselves honey, for it will be from four to months before they will again have cleansing flight.

entials for successful cellar win-The ess

THE JAWS OF THE HONEY BEE

With the closest scrutiny it become vident that the bee does not, like othe creatures, house its tongue in its mouth, but neatly folds it back beneath its head. Bumble bees, when disturbed, have a way of threatening with their jaws, while the honey bees has the more direct method of settling intruders with her sting.

The jaws of the bee are very creditable organs and can give quite a formidable nip. Catch a bee in a net and see how viciously it will bite at the meshes, working its jaws sidewise instead of up and

We call this wonderful implement of the bee a tongue, but in reality it is more than this, for the whole arrangement consists of two slender fliaments called maxillae, the under lip and the actua tongue. If a drop of honey lies near the surface of a flower the slender, active tongue, darting out from the case formed by the maxillae, licks it up with the same ease that a dog licks a plate. In addition to this telescoping power, the tongue is a hairy member, the hairs arranged in rings, the longest ones toward the center. They assist in lifting in the nectar and in pumping it into the mouth Thence it goes to the honey sac .- The Chautauquan.



SEEDS. HARVEST KING and CANADIAN HYBRID

SEED WHEAT.

Timothy, Clover & Grass Seeds. SEED RYE.

III Stockmen & Farmers Write Us for Prices. SCHISLER-CORNELI SEED CO.

OTWELL'S FREE

OUT AND SHRED kinds of green and dry fod-with the WOLVER-sitters and Shreuders. Has knives titing edges. It's a great improve-q can also attack our new Shredder regulater, making it more attack our new Shredder ur. Largest cuts PRICE \$2.25 and up. 8 eal only direct with you.
in Smith Co., 55-57.59 N. Jefferson St., Chicago; ill



JONATHAN APPLE

to reduce my immense stock of Jonathan Trees, 3 and 8 years old, and will make low for early orders. All propagated from y trees. Half price until 100,00 are sold. Ler stock grown. Everything in nursery wholesale to farmers. Address.

Otwell's Nursery, Carlinville, III. GINSENG. All about this money-making plant for 2-cent stamp. Send to-day.
O D. NUSBAUM, Jonesboro, Ill.

WHEN TO MOVE BEES.

The best time to move bees is in the early winter before the weather has been cold enough to make the combs brittle so that they will break in handling, or in a warm day near the spring, before the bees begin to fly out, says "American Cultivator." Thus it follows that one Cultivator." Thus it follows that one who buys bees should have those times to move them. If they are moved in the summer the combs are liable to melt down, and if in the honey season, unless taken several miles, the old bees are likely to return to the old location when they take their first flight. Some claim to prevent this by keeping them in the hive about twenty-four hours after mov-ing, and then drumming on the hive before the entrance is opened, and thus leading them to fly out and around the hive before they take a longer flight, thus noting the hive and its surroundings while in search for the one who disturbed them. The closing of the entrance is best done with wire netting, which alws of ventilation. Move with as little jar or shaking of the hive as pe

All growth comes from food eaten in excess of that necessary to sustain life.

Live Stock

Oct 16-17 1961-Estate G. W. Kennedy, —National Galloway sale at Kan-City, under the auspices of the aerican Galloway Breeders' Associa-Oct. 25—National Galloway
sas City, under the aus
American Galloway Breed
tion.
Douglas, Ill., Shorthorns.

Cattle, Sturgeon, Mo. J. J. Littrell, J. F. Keith and E. S. Stewart, Sturgeon, Mo., and J. H. Cottingham, of Clark,

January 23 to 31, 1902.—Sothams' annual Criterion Sale, at Kansas City. Jan 14, 15 and 18.—Cornish & Patten, Os-born, Mo., and others, at Kansas City, Mo. Hereford cattle. Feb. 11-12, 1902.—Redhead Anisty, Boyles and others, at South Omaha, Neb. Here-ford cettle. and others, at South Omana, New York and others, at South Omana, New York and York at Chicago, Ill. Shorthors.

March II.—W. P. Nichols, West Liberty, March II.—W. P. Nichols, West Liberty, Ind.

follows:
Nov. 20-21, 1901.—East St. Louis.
March 2-37, 1902.—Chicago.
April 25-34, 1902.—Kansas City.
May 37-29, 1902.—Omaha.
June 34-25, 1902.—Chicago.
POLAND CHINAS.
Bale at Ill. State Fair Grounds, Spring-

field, Ill.

Oct. 12.—R. T. Williams, Russellville, Mo.

Oct. 17, 13, 19, 21.—American Angora Goat
Show and Sale, W. T. McIntire, Sec.
and Manager, Stock Yards, Kansas
City, Mo.

Oct. 21.—E. E. Axline, Oak Grove, Mo. 22.—J. T. Robinson, Bates City, Mo. 24.—F. H. Schooler, Rockport, Mo. 25.—W. N. Winn & Son, Kansas City

L. M.—W. N. Willi & Solin Analsas City, M. 2.

2. M.—T. H. Martin, Kansas City, M. 2.

2. M.—C. E. Pogue, Findiay, Ill.

v. 4.—J. W. William, Cisco, Ill.

v. 5.—H. O. Minnis, Edinburg, Il.

v. 6.—C. C. Brown, Heyworth, Ill.

v. 7.—D. J. Waiters, Kumler, Ill.

v. 8.—W. R. Loveless, Gibson City, Ill.

v. 12.—A. G. Woodbury, Danville, Ill.

v. 14.—E. H. Wane, Douglas, Ill.

v. 14.—E. J. Jimison, Oneida, Ill.

v. 15.—W. J. McKibben, Garden Prai
lil.

ABERDEEN ANGUS CATTLE. Oct. 17-18—National sale, W. C. McGav-ock, mgr., Kansas City. Gavock, mgr., Chicago. Feb. 4-6—Combination

ock, mgr., Chicago Gavock, mgr., Kansas City. Gavock, mgr., Chicago NATIONAL SHORTE

Oct. 16- Kansas City, Mo

NATIONAL HEREFORD SHOWS. Oct. 16-25-Kansas City, Mo.

Dec. 2-7-Chicago, Ill. NATIONAL HEREFORD SALES. -Kansas City, Mo. Dec. 3-4-Chicago.

If pedigree does not count for anything in live stock breeding why have Short-horn breeders published 40 or 50 volumes of pedigrees, and other breeders in pro-portion? Why does pure bred stock that has a full pedigree sell for so much more grade animals that can show no edigree? Because the pedigrees furnish history of the ancestors of the animal wheat. When the cattle have access to a straw stack they get considerable chaff and more or less shriveled or waste chances are that the present animal will make a good breeder. With the grade animal that can furnish no history we must judge his breeding qualities from his looks and this is by no means a sure method. A careful breeder of pure bred If the majority of them have made good nethod. A careful breeder of pure brod live stock will attach as much import-ance to a pedigree as to the animal itself.

E. J. CARVER, Colo, Iowa. Dear Sir: Enclosed please find \$1 for which send me one bottle of lump jaw cure. I have used one bottle already and find it as recommended. Yours, H. E. KEITH,

Moran, Kansas. (This man must have been satisfied he would not order again: If interested, write Mr. Carver direct.-Ed.)

prize and sweepstakes boar, Corrector, at Illinois State Fair, to Messrs. Winn & Martin, Kansas City, Mo., for \$2,500.

H. O. MINNIS, who has been Superintendent of Swine at Illinois State Fair for

two years, was unanimously recommended by all the exhibitors for the superin tendency next year.

PATENT GROOVED Tire Wheels For Farm Wago IAVANA METAL WHEEL CO. Havana, Ill.

and in addition a score or more breeders who have never before shown their cat-

Mo. 1-12-Purdy Bros., Harris, Mo., and D. L. Dowdy & Co., Arrington, Kas., at Kansas City, Mo. Bhorthorns.
Nov. 14-15.—Sale of Berkshire and Jersey cattle. Blitmore Farm Annual, Bltmore, N. C.
Nov. 12, 1901—I. A. Novinger & Sons, Shorthorns, Kirksville, Mo. Dec. 19, 11, 13 and 12.—Kirk B. Armour and Jas. A. Funkhouser, at Kansas City, Hereford cattle.
Dec. 18.—C. D. Bellows, Maryville, Mo. at South Omaha. Shorthorns, Sons, Shorthorns, Co. 15-19, 1901—Gudgell & Simpson, C. A. Stanpard and Boott & March, Herefore cattle.

Dec. 19-19, 1901—Gudgell & Simpson, C. A. Stanpard and Boott & March, Herefore cattle.

Dec. 19-19, 1901—Gudgell & Simpson, C. A. Stanpard and Boott & March, Herefore cattle.

The control of their best cattle.

For example, there will be at least 14 aged bulls in the ring contesting for prizes in this section. Not less than 30 yearling bulls will be shown in section. The control of the prize of their best cattle.

For example, there will be at least 14 aged bulls in the ring contesting for prizes in this section. Not less than 30 yearling bulls will be shown in section three, and the other rings are proportion-at South Omaha. Shorthorns, Stanpard and Boott & March, Herefore cattle. more, N. C.

Nov. 13, 1961—I. A. Novinger

Bhorthorns, Kirksville, Mo.

Dec. 10, 11, 12 and 12.—Kirk B. Armour
and Jaz. A. Funkhouser, at Kansas
City. Hereford cattle.

Dec. 18.—C. D. Bellows, Maryville, Mo.,
at South Omaha. Bhorthorns.
Dec. 18-19, 1961—Gudgell & Simpson, C.
A. Stannard and Soott & March, Herefords, at Fort Worth, Tex.

January 28 to 31, 1962.—Sothams' annual
January 28 to 31, 1962.—Sot

wednesday and Trurady, October 25, 23 and 24, is confidently expected to be an offering much superior to that of last year. Of the 106 females cataloged 41 are yearling helfers—most of them nearly two years old; 26 head are two-yearolds, and 28 head are three years old or over. Of the latter class the 28 are with a few exceptions cows three and four years old and are either to be sold with, calves at foot or are bred and due to calve shortly.

The 45 bulls are mostly long yearlings, but seven of them being two-year-olds, and two only are to exceed three years old. Not only is the entire consignment of desirable ages, but the catalog is full of pedigrees of animals of individual Many of them are also entered merit. Many of them are also entered for competition in the show, and a num-ber have been premium winners at the shows and fairs held previous to this event. It has not been possible to make a personal inspection of the cattle to be sold, but the consignors have been warned to bring nothing but strictly first-class cattle, and should under any circumstances an animal in any way undesirable be brought to the sale barn, it will be denied the privilege of selling. For catalog write C. R. Thomas, Gen'l Supt., Kansas City, Mo.

MAINTENANCE RATION FOR CATTLE.

feed during the fall and winter of 1901-02, the Kansas Experiment Station under-took an experiment in feeding wheat straw and adding enough ground wheat to secure a maintenance ration. Three dry cows averaging 1,226 pounds live weight, two two-year-old heifers averweight, two two-year aging 1,059 pounds, and three calves averaging 1,059 pounds, were selected for this test. The experiment began August, 1, when the aggregate weight of the eight head amounted to 7,327 pounds. As the head amounted to 7,327 pounds. As the came from good sorghum pasture came from good sorghum pasture of resistance. In fact, some came of resistance. In fact, some Dec. 3-6-International sale, W. C. Mc- aging 1,059 pounds, and three calves aver-, Kansas City.

cows came from good sorghum pasture and the heifers and calves from good combination sale, W. C. Megr., Chicago.

gr., Chicago.

SHORTHORN
SHOWB
AND SALES.

ansas City, Mo.; Messrs. B. B.

Grooms of Staked Plains

Grooms of Staked Plains Per head. The cattle were fed four pounds of ground wheat daily per head throughout the experiment. By dampensor, T.—At Sturgeon, Mo.; by Messrs, J.

J. Littrell, Dr. J. F. Keith, E. S. Stewart, all of Sturgeon, and J. H. Cottingham of Clark Mo.

imal in the experiment lost in weight, the average being 62 pounds per head. During the second week they regained a 523 pounds, a gain of 13 pounds per head. The total weight of the lot at the close of the experiment was 7,217 pounds, a loss of 110 pounds for the lot, or 13 pounds per head, a small item when one considers that it all came in the first week of large many large that it all came in the first week of large many large the experiment. The total feed consumed by the lot was 4,232 pounds of wheat straw and 992 pounds of ground wheat. The straw was hauled about eight miles and did not contain any chaff or refuse wheat. When the cattle have access to

straw, doubtless the poorest roughage on the farm, can maintain an animal with a mal that can show a pedigree will sell for a fabulous price or that it will be any better than some other animal that has no pedigree. But the animal that is only a fairly good animal and has a pedigree that shows much of the best blood of the small outlay for ground wheat, it ought amount of grain required for mainten-ance reduced. Where red clover or alfal-fa is available little or no grain need be

The present low prices of stock cattle.

Kansas Experiment Station. Manhattan, Kas., Sept. 17.

THE CATTLE INDUSTRY.

Dr. Salmon, Chief of the Bureau of Animal Husbandry, U. S. Department of Animal Husbandry, U. S. Department of Agriculture, stated in a recent address to a meeting of cattle men at the Pan-American Exposition, that the United States has the largest aggregate number of cattle representing the largest investment of any country in the world. He then mentioned the work of the Bureau of Animal Industry in connection with the course of the consular department in their efforts of the Survey, Omaha, Kansas City, Denthele Consular department in their efforts of the Survey, Salmon, Consular department in their efforts of the Survey of the Survey of the Bureau of Animal Industry in connection with the Course of the Survey of the Su

THE KANSAS CITY CATTLE SHOw to increase this trade by sending cattle to Mexico, Central and South American The Hereford portion of the American countries, and gave the difficulties that Royal Cattle Show and sale promises had been met with in their endeavors in to be a record breaker in several respects. At the time of this writing, with a week yet in which entries may be received and an other causes had presented innumera number of the larger exhibitions yet to be heard from, the Hereford office has received entries from 42 of their breeders, each breeder consigning from one to 20 animals each to the show. This is without doubt the largest number of exhibitors of one breed of cattle that ever hibitors of one steel and the same that the cattle that contested for prises at one show. Practically all of last year's exhibitors, with the exception of those whose show herds have been dispersed, will be back again, than this.

VACCINATION FOR BLACKLEG.

Blackleg is one of the most dreaded dis eases affecting cattle. Vaccination of the animal has proven to be the most ef-fective preventive treatment yet discovered, and its use and what is known of its value were discussed by Dr. John R. Mohler, of the U. S. Bureau of Animal Industry, in a paper prepared at the re-quest of Secretary F. D. Coburn of the Kansas Board of Ariculture, and present ed at the board's recent annual meeting Dr. Mohler said, in part:

"Blackleg is an infectious disease caused by a specific germ, which is al-most universally present in the ground in all districts where the disease is known to prevail. This microbe, upon gaining entrance into the system, usually through punctured wounds made by briers or stubbles, develops rapidly and causes hemorrhagic, bluish-black, gas-filled swellings. The course of the disease is very rapid, and the animal usually dies within twenty-four hours after the ap

pearance of the first symptom.

"By vaccination we understand the injection into the system of a minute amount of attenuated or artificially weakened blackleg virus, for the purpose of producing a mild and clinically un-recognizable case of blackleg. The virus is obtained from animals which have died from blackleg by securing the affected muscles, cutting them into strips and drying them in the air. When perfectly dry they are pulverized, mixed with water to form a paste, smeared in a thin layer on flat dishes, placed in an oven, and heated for six hours at a tempera ture which approaches that of boiling water. The paste is thereby transformed into a hard crust, which is pulverized and sifted and measured out into packets con-taining either ten or twenty-five doses. This powder constitutes the vaccine, the strength of which is thoroughly tested or experiment animals before it is dis

here described appears extremely simple but it requires, nevertheless, constant vigilance and great experience to produc a vaccine which on the one hand will be sufficiently strong to enable the animals to resist a subsequent attack of the dis ease, and which on the other hand has been made sufficiently harmless to insure that the most susceptible animal does not develop an acute case of blackleg as a result of the injection. "If all animals were equally resistant

pounds of ground when throughout the experiment. By dampening the straw and sprinkling the grain on and through it, considerably more straw was consumed, the average for 31 through 16½ pounds daily per head.

As being 16½ pounds daily per head.

"As to the protective value of vaccine During the second week they regained a considerable portion of this loss. At the close of the experiment, September 1, the three cows weighed an average of the experiment of the cows weighed an average of the second with vaccineties in general, and with vaccineties in general, and with vaccineties in the course of the cour general, and with vaccination in partic-tions weighed an average of 1,172 pounds, a loss of 54 pounds per head for the 31 days under experiment, the helfers averaged 1,067 pounds, a gain of eight pounds per head, and the calves averaged 523 pounds, a gain of 13 pounds per head. vaccination until the disease had appeared have been avoided if the cattle owners in the infected districts would have vac cinated their young stock previous to the beginning of the blackleg season. "These figures speak for themselves,

"These figures speak for themselves, and it is to be hoped the time will come when every cattle owner will come to the

IMPROVEMENTS IN BLACKLEG VAC-

no pedigree. But the animal that is only a fairly good animal and has a pedigree that shows much of the best blood of the breed will be preferred to the one that in itself is of great excellence but has nothing in his pedigree that is more than ordinary.

rid of it. Where straw can be had for the having and wheat at 60 cents per bushel the feed cost of keeping a 1,000-parts of the country where blackleg is troublesome. The old powder from vaccine, requiring a hypodermic syringe and ordinary. troublesome. The old powder from vac-cine, requiring a hypodermic syringe and Heather Lad of Emerson 2d 19049, owned or \$1.50 more than it usually costs in "blacklegine," which is Pasteur Blackyears when feed is plentiful. Most every leg Vaccine in the form of a cord, ready farm produces rough feed considerably for use as sold, and is applied with a better than wheat straw. Prairie hay, corn fodder, Kaffir corn fodder, sorghum and put to practical use in 1897, vactination at once became more popular value, as the second to Eclipse 2d, owned by C. H. Gardner, Blandinstination at once became more popular value, ill.; second to Eclipse 2d, owned by E. Reynolds & Son, Prophetsown, Ill., Bull 1 and under 2—First to Bambo 38966, as it was readily seen that the improved method was more simple but just as effective as the old. Cattlemen who contemplate vaccinating their calves this fall will be glad to learn that an improved fall will be glad to learn that an improved by Gardner (C. H.)

Rull under 1 year old—Frst to Bobbia as the contemplate of the contemplate The present low prices of stock cattle, with every prospect of high prices in the spring, and the cheapness with which the cattle can be wintered, as shown by the above experiment, should induce farmers to hold their cattle, even though they could be sold at fair prices.

Description meedle for applying blackers.

Bull under 1 year old—Frst to Bodden to Fearless Lad 46831, owned by W. A. McHenry; second to Fearless Lad 46831, owned by A. C Binnie; third to Lucy's Prince 4681 case of accident. The handle with the two needles is called the "Blacklegine Cow 3 years old or over—First to Prid." and costs only fifty cents. Cat-Outfit," and costs only fifty cents. Cattlemen who raise choice caives and who have been using Pasteur "Double" Vaccine (powder form) will be pleased to Key of Chicago 24459, owned by C. H. know that the double treatment is now Gardner. furnished also in the cord form, known

CATTLE AT THE ILLINOIS FAIR. In its report of the Illinois State Fair,

eld last week, the Springfield "Jour-al" says: "Thou-ands of interested people watched around the great Shorthorn contest in the Coliseum at the state fair grounds all Coliseum at the state fair grounds all day yesterday. It was undoubtedly the best exhibition of that breed of cattle ever seen in the west. As expected, W. D. Flatt, the noted Canadian breeder of Hamilton, Ont., carried off the lion's share of the awards. His famous bull, "Valiant," champion at Toronto and Syracuse, N. Y., was declared the senior champion at the lilinois fair. The junior champion at the lilinois fair. "Valiant," champion at Toronto and Syracuse, N. Y., was declared the senior champion at the Illinois fair. The junior champion is "Nonparell of Clover Blosom," owned by George Bothwell of Nettleton, Mo. The matchless 2-year-old cow of J. A. Robbins of Horace, Ind., again defeated all competitors. "Clarisagain defeated all competitors. "Claris-sa," also owned by Mr. Robbins, taking

the junior championship. "Cicely," the champion aged Flatt cow, held her own against every competitor here, winning first prize. "Nonparell of Clover Blossom." a yearling owned by George Bothwell of Nettleton, Mo., was a sensational feature, winning a blue rib-

bon.

Mr. Flatt captured four blue ribbons.
Other breeders having animals in the first class were N. H. Gentry of Sedalia, Mo., and G. Harding & Sons, Waukes.aa, Wis.
This practically ended the live stock competition in the breeding classes. But one herd of Herefords, that of O. Harris of Harris, Mo., is here, and that will be displayed in the ring to-day."

Awards in the beef classes were as follows:
SHORTHORN CATTLE.
Bull 3 years old or over—First to Valiswight of the property of the conduction of the conduct

Bull 3 years old or over-First to Valiowned by W. D. Flatt, Hamil- by Brookside Farm Co. ton, Ont.; second to Golden Victor 138972, owned by George Harding & Son, Wautshaha, Wis.; third to The Lad for Me side Farm Co.; second to Scottish Standard 2d, owned by J. G. Robbins & Son, ard 2d, owned by Brookside Farm Co.;

Bull 2 and under 3-First to Lord Bamff Swigart. 150718, owned by W. D. Flatt; second to Red Lad 149082, owned by C. F. Rice, Inanola, Ill.; third to Black Watch 153334, owned by George Bothwell, Nettleton,

Bull 1 and under 2-First to Nonpareil of Clover Blossom 153672, owned by George Bothwell; second to Nonparell Hero 170793, owned by George Bothwell; third to Marmaduke 2d 170610, owned by C. F.

Buli under 1 year old—First to animal owned by N. H. Gentry, Sedalia, Mo.; second to Roy Archer, owned by George Harding & Son; third to animal owned

by N. H. Gentry.
Cow 3 years old or over—First to Ci-cely, owned by W. D. Flatt; second to Empress 12, owned by W. D. Flatt; third to Young Matchiess, owned by J. G. Robbins & Son.

Cow 2 years old and under 3—First to Ruberta, owned by J. G. Robbins & Son; second to Rose of Autumn, owned by George Harding & Son; third to Ascot Mayflower, owned by W. D. Flatt. Helfer 1 and under 2—First to Clarissa, owned by J. G. Robbins & Son; second to Golden Fame's Belle, owned by George

Harding & Son; third to Snowball, owned by Grey Tower Stock Farm, Grass Lake, Heifer under 1 year old-First to Lad's

Goldy, owned by J. G. Robbins & Son; second to Queen to Beauty, owned by George Bothwell; third to Golden Las sie's 3d, owned by J. G. Robbins & Son George Harding & Sons.

Breeder's young herd-First to J. G. Robbins & Son; second to George Both well; third to N. H. Gentry.

Get of one sire—First to George Bothwell; second to J. G. Robbins & Son;

third to C. F. Rice. Produce of one cow-First to George Harding & Son; second to Grey Tower Stock Farm; third to George Bothwell. Cow 2 years old or over-Premium to Ruberta, owned by J. G. Robbins & Son. Heifer under 2 year old-Premium to Clarissa, cwned by J. G. Robbins & Son HEREFORD CATTLE.

Bull 2 and under 3—First to Loma: 999, owned by O. Harris, Harris, Mo. Bull ander 1 year old-First to Good Enough 3d 119034, owned by O. Harris; second to Burke 119933, owned by O.

2d 76806, owned by O. Harris. Heifer 2 and under 3-First to Lady Dewdrop 2d 87466, owned by O. Harris, Heifer 1 and under 2—First to Kassil 3d 30474, owned by O. Harris; second to Silver Cup 104716, owned by O. Harris. Heifer under 1 year old-First to Troublesome 119946, owned by O. Harris; cond to Lucile 2d 110039, owned by O

Exhibitor's herd-Premium to O. Har-Breeders young herd-Premium to O. Cha

Harris. Get of one sire-Premium to O. Harris. Produce of one cow-Premium to O.

Harris. Champion-Bull 2 years old or over-Premium to Lomax

ABERDÉEN-ANGUS CATTLE.

by A. C. Binnie, Alta, Ia.; second to Royal Laddie 30643, owned by W. A. McHenry, Denison, Ia.; third to Valiant would be only \$2.50 per head per month, or \$1.50 more than it usually costs in years when feed is plentiful. Most every farm produces rough feed considerably for use as sold, and is applied with a Son, Cedarville, O.

Heifer 2 and under 3-First to Barbar

quette of Denison 24th, owned by W. A. McHenry; second to Ida Lad, owned by E. Reynolds & Son; third to Blackbird of Denison 42d, owned by W. A. McHenry.
Exhibitor's herd—First to W. A. McHenry; second to D. Bradfute & Son;
third to A. C. Binnie.
Breeders young herd—First to W. A.

Champion—Buil 2 years old or Premium to Rosegay 30708, owned

H. Gardner.
Bull under 2 years old—Premium to
Bobbie Dobs, owned by W. A. McHenry. Cow 2 years old or over-Premium to Barbara McHenry 13th 32488, owned by

W. A. McHenry.
Cow under 12 years old—Premium to
Blackbird of Denison 31st 38949, owned by W. A. McHenry GALLOWAY CATTLE.

Bull 3 years old or over—First to Druid of Castlemiik 17054, owned by O. H. Swigart, Champaign, Ill.; second to Mus-

Swigart; third to Caligula 17230, owned

third to King Boyd 18654, owned by O. H.

Cow 3 years old or over—First to Lady May 11502, owned by O. H. Swigart; sec-ond to Sadle Garland 13510, owned by E. H. White; third to Edelia of Hamboro 12783, owned by Brookside Farm Co. Heifer 2 and under 3-First to Gentle Annie A. 15417, owned by E. H. White; 2d to Norma 3d 16192, owned by O. H. Swigart; third to Lutie Lake 15483,

2d to Norma 3d 16192, ov Swigart; third to Luti owned by O. H. Swigart. Heifer 1 and under 2-First to Little Sioux 3d 16994, owned by E. H. White; second to Fairy of Maples 15896, owned by Brookside Farm Co.; second to Hensoles Beauty 19185, owned by O. H. Swigart; third to Muscosm N. of White Farm 18921,

owned by E. H. White. Exhibitor's herd—First to O. E. Swi-gart; second to E. H. White; third to Brookside Farm Co.

Breeders young herd—First to E. H.
White; second to Brookside Farm Co.
Get of one sire—First to Brookside
aFrm Co.; second to O. H. Swigart; third
to E. H. White. Produce of one cow-First to O. H.

Swigart; second to E. H. White; third to E. H. White. Champion bull, 2 or over—Premium to Druid of Castlemilk 17064.

Bull under 2 years-Premium to Scotish Standard 1st 18538. Cow 2 years old or over-Premium to

cottish Princess RED POLLED CATTLE.

Bull 3 years old or over-First to Bush ell 4280, owned by Andrew Bros., Cedarville, O.

Bull 2 and under 3—First to Prince

Portia 6527; second to Josephus 7253, owned by J. H. Crowder & Son, Bethany, Ill. Bull 1 and under 2-First to King wned by Andrew Bros., Cedarville, O.; econd to Falstaff 3d, owned by J. H.

Crowder & Son; third to Zyril, owned by J. J. Chambers. Bull under 1 year old—First to Merino, owned by J. J. Chambers; second to Prince of Sadorus, owned by J. J. Cham-bers; third to King William, owned by

Andrew Bros. Cow 3 years old or over-First to Beauty 13180, owned by Andrew Bros.; second to Eva 12253, owned by J. H. Crowder & Son; third to Floss 14961, owned by J. J.

Chambers. Heifer 2 and under 3-First to Saph 17639, owned by J. J. Chambers; second to Red Rose 15897, owned by Andrew Bros.; third to Beauty of Cedarville 14498

wned by Andrew Bros. Heifer 1 and under 2-First to Dutch Maid 14587, owned by Andrew Bro ond to Supremacy 2d, owned by J. H. Crowder & Son; third to Money 2d 15489, owned by Andrew Bros.

Heifer under 1 year old-First to Lady Dewdrop, owned by J. J. Chambers; se ond to Dew 2d owned by J. H. Crowd.

& Son; third to Ione, owned by J. J. Chambers. Exhibitor's herd-First to Andrew Bros.; second to J. J. Chambers; third to J. H.

to J. J. Chambers. Get of one sire-First to Andrew Bros.

Bushnell 4280, owned by Andrew Bros. Bull under 2 years—Premium to King, owned by Andrew Bros. Cow 2 years old or over—Premium to Beauty, owned by Andrew Bros.

MESSRS. C. E. VIGAL & SON, New City, Ill., place their advertisement of Poland-Chinas in this issue. They are old and experienced breeders of high class stock and are thoroughly reliable. They have a splendid lot of pigs for this season's trade. They can and will sell you good stock worth the money. Look up their advertisement and write them, or

Camp Creek Herefords ock for sale. Inspection invited. sale. Inspection invited. Call or LOUIS WEHRMAN, Truxton, Lincoln Co., Mo.

HEAD- SHORTHORNS in herd; young stock of both sexes for sale. The Druickshank bull Duke of Hardson 123,987 at sead of herd. W. H. H. Stephens, Bunceton, Mo.

Shorthorn Cattle,

JOHN MORRIS, Chillicothe, Mo

Gay Laddie 119,363 at head of herd. Young stock for sale. Call or write.

Che American Royal Cattle Show Stock Yard, Kanjaj Ctx Mo.



October 21 to 26, 1901

\$20,000

in Cash Prizes for HEREFORDS, SHORT-HORNS and GALLOWAYS

150 Herefords, 80 Short- Horns. 50 Galloways to be Sold at Auction

For Catalogues, address C. R. THOMAS, Genl. Supt. 225 W. 12th St., Kansas City, Mo.

Reduced Rates on all Railroads.

PASTEUR VACCINE COMPANY.

Chicago, New York, Kansas City, Omaha, Ft. Worth, San Francisco.



Single Blackleg Vaccine Powder Form. Double Blackleg Vaccine Blackleg Vaccinating Outfit

Single Blacklegine \ Vaccine ready for use. Double Blacklegine \ Each dose separate. Blacklegine Outfit (Needle with handle), 50c. Disinfectant Feeding Compound

Virus for Destroying Rats

Scour Cure (Alexander)

LARGEST COW IN THE WORLD.



\$3000.00 STOCK BOOK FREE

THIS BOOK FREE, Postage Prepaid, If You Write Us a Postal Card and Answer 3 Questions:

Name this paper. Sad—How many head of stock do you own? Srd—Did you ever use "HATERNATIONAL STO the Broth Food Pattery in the World.

Capital Paid is \$400,000.00.

Blackwater Shorthorns. F. M. Marshal, Prop. BLACKWATER, Herd headed by the Cruickshank Bull. Orange Hero 152,885 by Godoy. Pemales are of pure Scotch and re Bates, with individual merit the standard. Young stock of bot³ "ax for sale.

HEREFORDS Gudgell & Simpson,

600 HEAD IN HERD. Independence, Mo.

TEBO LAWN HERD OF SHORTHORNS

Breeders young herd—First to J. H. CASEY, SHAWNEE MOUND, HENRY COUNTY, MO. Crowder; second to Andrew Bros.; third ERailway Station, Clinton, Mo. LINES OF BREEDING-"The Casey Mixture," Cruickshanks and other Scotch cat-

tines of Breeding—"The Casey Mixture," Cruicksnanks and other Scotch et al. No. 2. Chambers; third to J. H. Crowder & Son.

Produce of one cow—First to J. J. Chambers; second to J. H. Crowder & bred by W. S. Marr; Asimis Godey 133272, bred by Col. C. E. Leonard; Victor 1408 bred by W. S. Marr; Asimis Godey 133272, bred by Col. C. E. Leonard; Victor Bask blon; third to Andrew Bros.

Champion bull 2 or over—Premium to Bushnell 4890, owned by Andrew Bros.

Address all correspondence to

E. M. WILLIAMS, Manager, Shawnee Mound, Mo.



WE PRINT BILL HEADS, LETTER HEADS, ENat very low prices. Wile your wasts
INDEX PRINTING COMPANY,
St. Louis, Mo.

R. S. WILLIAMS, Liberty, Mo Breeder of high-class Augus cattle. Zaire 17th. 40653, a grandson of imp. Emlyn 13211, and famous Black Monk in service. Choice young buils and females of the richest breeding and individual first class for saic. All leading families represented.



BEFORE BUYING PIPE

CEDAR VIEW AND GROVE HILL
SHORTHORNS.
Gay Laddie 119,200 at head of herd. Young stock for

ENGLISH Red Polled Cattle.

Pure blooded and extra
fine stock. FF Your orders solicited.
L. K. HASELTINE, Dorchester, Greene Co., Me H. W. KERR,

BREEDER OF RED POLLED CATTLE Good young bulls for sale. Carlinville, Ill. RECISTERED

Shorthorn Cattle **POLAND-CHINA HOGS**

Bred and for sale by H. A. BARBER, WINDSOR, Mo. RAVENSWOOD HERD SHORTHORNS.

125 head in herd. 20 bulls for sale from 6 to 16 months old. Scotch and Scotch top ped. Herd headed by (Lavender Viscount 124755), the champion Shorthorn bull of the Kansas City Show, 1900.

ED. PATTERSON, Manager.

R. B. and telephone station. Bunceton, Me

Shorthorn Cattle, rkshire Hogs, Angora Goats, Light Brahma and iden Seabright chickens. Stock and eggs for sale. Il on or address J. J. LITTRELL, Sturgeon, Mo.

Hereford Cattle!

10 bull and 20 heifers for sale, all registoicely bred. Call on or address N. E. MOSHER & SON, Salisbury, Mo.

Horseman



The largest horse in the world was sent to the Chicago Union Stock Yards last week by George M. Tegard, El Paso, Ill. The animal is a coal black Paso, III. The animal Shire gelding, six years old, standing 21.1 hands, and is of admirable proportions. This monstrosity weighs, in good upward of 3,000 pounds.

A foreign veterinarian treats summer wounds, so difficult to heal, with tincture following to be difficult to heal, with tincture following the parts uncovered. In four or five days a dry scab forms, and cicarrization gradually follows. Another veterinarian while sojourning in Algeria, employed almost

should be the unwritten rule would es' stands, and, if observed, there would be fewer collisions and shocking scenes at trotting meetings than are now brought before the spectators of harness in racing. Much turf iniquity is done in the name and ever-ready phrase of money they failed to get this season."

According to "Columbus ern Horseman," Morg G. is still owned by W. E. Campbell of Klowa, Kas. The Transylvania to be trotted this week at Lexington, Ky., was won 11 years ago by the saddle bred Missouri trotting horse McDoel, beating the great Allerton, who was second in this race.

coach horses, of which they are heavy holders, are the highest types of the breed, and it was seldom, indeed, that a Lafayette Stock Farm animal was returned from the show ring without a ribbon. The Messrs, Crouch are the largest importers in this country of German coach horses, and the quality of their stock argues attends to the stock of the country of their stock argues attends to the country of the count

W. W. Estill of Lexington, ky. recently shipped to Roy Miller, driver for Idle Hour Farm, now at Goshen, N. Y., nine head of youngsters, including a filly by Chimes, dam Alecia Belle, by Liberty Bell; a bay filly by The Tramp, dam May Day, 2:18%; is stallion by Bow Bells, dam Watanga, by Tennessee Tast although there was a heavy wind

head, the get of Expedition, 2:18, three and four-year-olds, will be sold. Many of these have trotted the Woodburn track in better than 2:30. They are bred to trot. They are as good a lot as ever came from this famed farm, and will be sold in Woodard & Shanklin's sale during the Kentucky trotting meeting. Oct. 8:18. Catas of a second. ky trotting meeting, Oct. 8-18. Cata-ue of 350 head is now ready and will mailed to any address upon applica-success of a

Western Horseman. This was the second meeting of the king and the ex-king, both resulting the same; and the best that can be said of The Abbot now is that he is an ex-champion and the second fastest trotter in the world. Cresh the confunction of fastest trotter in the world. Cresh where the confunction of the confun Western Horseman. This was the secceus is clearly in a class by himself, and it seems idle to talk about any other trotter now in the fast class beating him. A trotter will appear by and by who will lower the present record of the McGregor stallion, but there is trotter now in the fast class beating him. A trotter will appear by and by who will lower the present record of the McGregor stallion, but there clearly nothing in sight that can give him a race to his limit.

Hussey won an excellent race at Cincinnating giving him a record of 2:16, and around Sedalia as Peewee and the sire of the McGregor stallion, but there is clearly nothing in sight that can give him a race giving that horse a record of 2:09%. General Tracy's Marshland of 2:09%. General Tracy's Marshland of 2:09%. Spirit of the West is asking for an Iowa

named is a four-year-old and a mere pony-possibly the smallest pacer in the world with so fast a record. Home Circle is out of the dam of Planet, 2:04%, four or five campaigns previous to 19 four or five campaigns previous to 19 and won a five heat race at the Cincin and won a nive heat race at the Chichi-nati meeting last Monday. To the credit of Axtell it may be added that of fifty-seven in the list he has sired only five pacers. In addition to this Axtell has two sons that have become sires of speed

Horse Owners! Use GOMBAULT'S Caustic Balsam mposture to produce sour or nemaco-id is warranted to give satisfaction or bottle. Sold by druggists, or charges paid, with full directions

Fred Wilton, 2:08%, is fast making a record for himself as a ringer. Early in the season in the Lake Eric Circuit he appeared as Ornus. Up in Michigan later on he raced as Frank Derby and last week he turned up at Westfield, Mass., under the name of Finley Ross. He is a bay gelding but at Westfield he was chestnut in color, his coat having been bleached. His driver and owner have been expelled, but they keep right on ringing the horse just the same C. W. Williams recently purchased six head of trotting-bred horses from Woodburn Farm, all sired by Expedition (2:1856), and ranging in age from two to four prison there would be a decided let up the state of the state of the state making it a criminal offense to race a horse out of his class or under a false name. If a few of the turf pirates were sent to prison there would be a decided let up to the state of the sta in ringing.

Emma E., by Allandorf, is a race mare. She couldn't quite make good at Dover in 2:08%, but after seeing Louise G. and Helen R. touch that mark she went on and won the fifth, sixth and seventh heats of the 2:10 pace in 2:12%, 2:16, 2:18.

The largest horse in the world was sent to the Chicago Urlion Stock Yards last week by George M. Tegard, Eight Paso, Ill. The animal is a coal black Paso, Ill. The animal is a coal black of the mile, winning the heat in 224%, 2:18, and trotted then the pacers at Terre Haute. The meeting seemed to furnish honors for Rich Hill. Riley B. won third money in the 2:06 class. Little Squaw, driven by W. F. Ervin, whose home was at Rich Hill when he began driving harness horses, won the eight class, and a record of 2:06. Only three other mares have ever paced so fast.

The Britania Couldn't quite make good at Dover in the West and in one of the heats, when near the quarter pole, one of her reins broke. In the began driving harness horses, and trotted the pacers at Terre Haute. The meeting seemed to furnish honors for Rich Hill. Riley B. won third money in the 2:06 class. Little Squaw, driven by W. F. Ervin, whose home was at Rich Hill when he began driving harness horses, won the eight class, and a record of 2:06. Only three other mares have ever paced in 2:06. The standard pacers at Terre Haute. The meeting seemed to furnish honors for Rich Hill. Riley B. won third money in the 2:06 class. Little Squaw, driven by W. F. Ervin, whose home was at Rich Hill when he began driving harness horses, won the eight class, and a record of 2:06. Only three other mares have ever pacers. The largest horse home was at Rich Hill when he began driving harness horses, won the eight class, and a record of 2:06. Only three other mares have ever pacers. The largest horse home was at Rich Hill Riley B. won third money in the 2:06 class. Little Squaw, driven by W. F. Ervin, whose home was at Rich Hill Riley B. won third money in the 2:06 class. Little Squaw, driven by Color Hill Riley B. won third hill Riley of the mile, winning the heat in \$234\forall_4\$. The filly was sired by Belsire, 2:21\forall_4\$. Herschel added his fourth standard sell, brother to Maud S., granddam by George Wilkes. After passing the wire, after winning the heat referred to, the standard sells the standard se

ually follows. Another veterinarian while sojourning in Algeria, employed almost exclusively iodine in the treatment of harness wounds with the best results. Iodine is an antiseptic and causes hypernutrition.

"Down with the foul drivers," says "Veritas," in Trotter and Pacer. "This unplaced at Cincinnati. There are plently should be the unwritten rule of all judges' stands, and, if observed, there would be fewer collisions and shocking scenes

Early in the season there was a great hurrah from the people who believe a close up thoroughbred cross in a trotters horses among her untraced pacers. It seems reasonable to think, says the Horse World, that the pacer, Little Boy, that drew a wagon a mile in 2:02, over the Empire City track last week, might be conditioned to pull a sulky a mile in two minutes or better. In his races, this phenomenal pacer has not been a very consistent performer, but he is certainly possessed of a sensational flight of speed. It is said than an effort will be made to put him in the two-minutes list during the coming meeting at Memphis, Tenn.

Light forms the people who believe a close up thoroughbred cross in a trotter's phore at the people who believe a close up thoroughbred cross in a trotter's horses among her untraced pacers. Mc-Doel, 2:15½; Joe He, 2:07½; and New Hope, among them. It is the only way yet I found to breed harness speed that is available for racing. Harold H., by Roadmaster, the fastest of all Canadian bred pacers, made a record of 2:04 at Terre Haute. He started the season with a record of 2:11. It looks the thoroughbred dam of his sire. Well, the season is about over, and still Monticola, because of the speed the thoroughbred dam of his sire. Well, the season is about over, and still Monticola, because of the speed the thoroughbred dam of his sire. Well, the season is about over, and still Monticola, because of the speed the thoroughbred dam of his sire. Well, the season is about over, and still Monticola, because of the speed that say the say that the other book elements about the trotter. Monticola, because of the Hope, among them. It is the only way to I found to breed harness speed that is available for racing. Harold H., by Roadmaster, the fastest of all Canadian bred pacers, made a record of 2:04 at Terre Haute. He started the season with a record of 2:04 at Terre Haute. He started the season with a record of 2:04 at Terre Haute. He started the season with a record of 2:04 at Terre Haute. He started the season with a record of 2:04 at Terre Haute. He season is about over, and still Monticola, because of the speed that is available for racing. phis, Tenn.

J. Crouch & Son, of the Lafayette Stock Farm animal was returned from the season is about over, and still Monticola's record is just 2:18½, Just why he land to go on and trot. down below 2:12, and a lot of others, has not been stated by those who large the stock of the breed, and it was seldom, indeed, that a Lafayette Stock Farm animal was returned from the season is about over, and still Monticola's record is just 2:18½. Just why he land not go on and trot. down below 2:12, and a lot of others, has not been stated by those who large the season is about over, and still Monticola's record is just 2:18½. Just why he land not go on and trot. down below 2:12, and a lot of large the season is about over, and still Monticola's record is just 2:18½. Just why he large trotling-bred trotters, the season is about over, and still Monticola's record is just 2:18½. Just why he large to go the title Squaw this week at Lexlington. It is my opinion she will be in the money, but with Joe Patch, 2:04½, in the money, but with Joe Patch, 2:04½, in the money, but with Joe Patch, 2:04½, if I do not think there is a man driving horses to-day that has two such were touting him last and late of the season is about over, and still Monticola's record is just 2:18½. Just why he large to go the to go the totter the money, but with a record of 2:11. It looks now as if he were eligible to any class open to Joe Patch, son of Joe Patchen. Watch Little Squaw this week at Lexlington. It is my opinion she will be in the money, but with Joe Patch, 2:04½, in the money, but with Joe Patchen. Watch Little Squaw this week at Lexlington. It is my opinion she will be in the money, but with Joe Patchen. Watch Little Squaw this week at Lexlington. It is my opinion she will be in the same record of 2:111. It looks the population of the patch and the patch and the patch and the patc

German coach horses, and the quality of their stock argues strongly that they import only the best.

W. W. Estill of Lexington, Ky., recently showed to Roy Miller driver for Liberty Bell: a bay filly by The Tramp, dam May Day, 2:1834; stallion by Bow Bells, dam Watanga, by Tennessee Wilkes; colt by Red Chute, dam Tulia S., by Jay Bird; two-year-old filly by Baron Wilkes, trial half as a yearling in 2:08; colt by Ashland Wilkes; colt by Royal Baron; colt by Grattan, and a colt by Electric Bell, dam by Red Wilkes.

The word was given on the second score. Harry Devereux, the crack amateur drivers when the come own McKerron, drove him. The famous Woodburn Farm is again before the world with a large batch of When he went to the quarter in 32 secpromising stock. This time twenty-six onds, and to the half in 1:94, there were head, the get of Expedition, 2:15%, and

logue of 350 head is now ready and will be mailed to any address upon application.

A good trainer is as necessary to the know of the breeding of his dam?

All the horse papers in writing of the success of a stock farm in the production.

The meeting of Cresceus and The About The meeting of Cresceus and The About The meeting of Cresceus and The About The would—in the triumph of Cresceus, says would—in the triumph of Cresceus, says

May be conveniently near and given dry, comfortables appear the youngsters may be conveniently near and given dry, comfortable quarters. How many cases of strangles, distempers and pneumonia might be present tention to the Futurity race, always distempers and pneumonia might be presented by a little foresight and personal attention on the part of the would not have an animal on they know an leinting near and given dry, comfortables appear the youngsters may be conveniently near and given dry, comfortable appears, as witness the phenomenal young stake winner, Shadow Chimes, 2:06%, and tention to the Futurity race, always trotted the first day of the meeting, and attention on the part of the pknow an alimal on they know an alimal on they know an alimal on they know an elinity near and given dry, comfortable appears in writing of the tention to the Futurity near and given dry, comfortable appears, as witness the phenomenal young stake winner, Shadow Chimes, 2:06%, and with they know an alimal on the know of the breeding of

a race to his limit.

Axtell has taken position with the leading sires of the year, says the Horseman. Six of his get have entered the list this season, and in addition he has two new ones in his list of 2:15 performers, the trotting mare Ozenam, 2:12%, and the nacer Home Circle, 2:13%. The lesson is plain: A good trainer will nacer Home Circle, 2:13%. The lesson is plain: A good trainer will nacer Home Circle, 2:13%. The lesson is plain: A good trainer will nacer Home Circle, 2:13%. The lesson is plain: A good trainer will nacer Home Circle, 2:13%. The lesson is plain: A good trainer will nacer Home Circle, 2:13%. The lesson is plain: A good trainer will nacer Home Circle, 2:13%. The lesson is plain: A good trainer will nacer Home Circle, 2:13%. The lesson is plain: A good trainer will nacer Home Circle, 2:13%. The lesson is plain: A good trainer will nacer Home Circle, 2:13%. pacer Home Circle, 2:1314. The last make a reputation for a stock farm that

The decline in cort trotting and even in colt development was most marked in the four or five campaigns previous to 1901. But a few years previously there were engagements for the youngsters through-out the Grand Circuit and in fact at all the prominent meetings in the coun-try. Then there came an agitation against the development of coits that amounted to almost a wave of reform, and the material became so limited that associations were unable to offer cold contests without meeting great loss, with the result that this kind of harness sport was practically limited to the three four futurities that were kept alive The events of the past few weeks go to how that there has been a marked re-ival in colt racing interests. At three oints on the Grand Circuit interesting racing between 3-year-old trotters took place, but what indicates more clearly the fact that more colts have been in training than for years past is in the increased number of youngsters in this year's new 2:30 list. While it has been the custom, says the Horseman, to wait

son, and when cort range begins in earliest the list will grow into the largest of many years. So far twelve 2-year-olds have taken records this season, headed by Prelatress, 2:1394, while last year's complete list numbered sixteen, and honors were divided between Prices and World were divided between Priola and Walnut Hall, both having trotted in 2:20%. The 3-year-olds have been busy in all parts of the country; in many instances they have been campaigning most successfully against aged horses.

BLUE BULL NOTES.

L. E. Clement

wood won third money in the 2:11 class for pacers at Terre Haute. The meet-

the great brood mare list. She is the

dam of Viola, by Flaxtail, already a producer. If Kono, 2:244, is out of Josie G., as the doctor states, the Year Book should be corrected. It gives the dam of Kono as Mishap, by Prodigal, son of Onward, Which is right? Madam Buckner has two in the list, one a trotter the other a pacer, both by Sterling, son of Egmont, one of the stallions Dr. Hicks brought back to

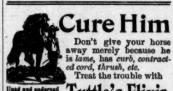
George Castle, 2:11%, is by Roseberry, 2:15%, and Mr. C. H. Gilo of Mason City Ia., in Western Department of "Horse Review," says he was bred in Missouri and is owned at Keystone Stock Farm, Omaha, Ncb. In the report of special Ohio correspondent of "The Kentucky in Missouri, who bred him, and what do

weeks when John Hussey with two green of their annual meeting. Missouri should open a Futurity for mares to foal next Farm went out and won races in Grand spring and not less than five good big

the East vet consider that we even or the west bank of the Mississippi, are in shape to compete with the elite portions. Even as well posted a writer as Alien w. Thompson of Maine, is said to have ex-

when his son paced around 2:10 earlier in the officers announce a futurity?

"What is Alexander Dumas."



Used and endersed by Adams Exp. Co.

It cures all these and internal diseases, such as colic, disemper, founder, pneumonia, etc. A cure guaranteed or money refunded.

tion and will prove to be of great interest to horsemen and horsewomen. In refitting the stock barks to accommodate horses, 5,000 feet of lumber was used for the front of the mangers alone, which will give some idea of the extent of the preparations that were made. Ten-foot preparations that were made to the them of the cause of colic was confirmed by Mr. The cause of colic was confirmed by Mr. Sampson, who related the case of an omnibus company owning over 400 horses and their plan is to let them drink when-were they like. The company has no more cases of colic was confirmed by Mr. Sampson, who related the case of an omnibus company owning over 400 horses and their plan is to let them drink when-were they like. The company has no more cases of colic was confirmed by Mr. preparations that were made. Ten-foot tails are provided for stallions and 5-toot stalls for other horses. Like the other Stock Shows, the Horse

ST LOUIS PARADE

The purpose of the First Annual Par-The purpose of the First Annual Par-ade of horses and vehicles, used for pleas-ure, to be held in St. Louis, lies deeper than a mere desire on the part of the promoters to give horse owners an op-portunity to display their turnouts, and the general public the pleasure of re-viewing them.

It is intended, in a way, to be educa-tional and to bring about a betterment of civic conditions, as they apply to every person who rides or drives for pleasure, as a matter of convenience

The primary and principal object of the sarade is to arouse and stimulate interest in the crying need for better streets in it. Louis. There should be a system of driveways in this city from which the heavy hauler can be barred. There should be at least one grand drive with one or more speedways, bridle paths and bicycle tracks connected with it.

If every St. Louisan interested in the matter will work for this end it can be accomplished in less than twelve months The parade this year is intended to be the opening wedge for more boulevards, and better boulevards, and a magnificent St. Louis in 1968. The horse owners can make their power felt if they will work together. The first step is to demon-strate their strength in numbers, and in wealth. The more fine horses and handome turnouts there are in the parade the greater will be the effect.

FALL CARE OF HORSES

It is an admitted fact that there is a shortage in the supply of good horses in the country, notwithstanding the volume of receipts reported weekly at the wholesale markets. The methods of mar-

Formerly the bulk of sales were closed by breeders, who consigned to some commission man, but to-day the industry of marketing has passed into the hands of professional dealers, who purchase their supplies in the country and close them ut to the wholesale trade.

From the day of foaling to the period of selling, horses should have proper at-tention if the largest profit, is to be real-ized out of the industry. There is no question if the right kind of horses are raised but what the enterprise will prove more valuable than raising sheep or cattle. Yet there is no business that will prove satisfactory unless it has the con-stant personal attention of the proprie-The farmer can not achieve suc cess in any branch of agriculture witht special effort. Business is not like a eight-day clock—one winds it, and the machinery does the rest. Even the period of foaling is a critical era in consummating success in horse breeding, for ngster may need more than ma-

ernal attention.

The season is now at hand, the most critical in the experience, of wintering young horses. If they go into winter quarters in good condition the chances are more than even that they will come out in the spring rugged and strong. Too many farmers neglect the comfort of young horses in the autumn, and the young animals are needlessly exposed to cold rains and sleets with no other pro-tection than a hay or straw stack guard-ed in many instances with a barbed wire fence. As winter approaches the sheds and stables should be repaired for the dam by Blue Bull, 2:1134, 2:13, 2:1134. If this is correct there are five new ones to the credit of the daughters of Blue Bull 75. If George Castle, 2:1134, was bred by the country of the distant pastures that by Misseyis who have all what do the cold storms of rain and sleet appear the youngsters may be convengrowth of a colt for six months and ne haps impair its wind permanently. To avert such diseases means the entire profit of the industry. It is not possible to raise the best types of the mar-stands out prominently with Arion, 2:07%;

> breeders consumes the profits of the in- races. dustry. Such ragged treatment may have originated the phrase, "survival of the fittest," but is now entirely eliminated line of begetting e from the program of progressive breeders. Experience has demonstrated that ting record as yearlings, two-year-olds,

this year, Glad Ax, age six, that is the six of Old Fashion (3), 2:19%, and Actell, age 10, six of Birthday, a three-year-old that won two races in successive days, earning a record of 2:24%. Horses will be shown at the Pan-American Exposition from October 7 to 19.

Judging will take place in the Stadium on October 9 and 10. In addition to the usual prizes, Superintendent Converse has succeeded in interesting the various Live Stock Associations and they are offering large especial prizes.

The Horse Show is very complete in all classes, from the smallest fancy pony to the heaviest draft stallion ever exhibited. All classes between these two extremes have received especial attention and will prove to be of great interest to horsemen and horsewomen. In

quality of the water was far more in Like the other Stock Shows, the Horse Show will also have a side exhibit of tranch bronchos, which no doubt will attract a great deal of attention.

Doubt Horse H or after feeding, but the very variety of the results was a proof that the methodad very little to do with the matte and gradually it is becoming clear that quality and purity are of much greater importance in food and drink than the

partaken of.
Opinions vary among the vets, regarding the best kinds of feeding. Mr. Hunting has seen very large quantities of barley fed to hard-working horses; and his late father, who was one authorities on such questions, was of the opinion that if barley were at a reasonable price it might be used to the extent of one-fourth of the ration. Mr. Sampson, although not personally favoring barley as a safe food, admitted that a client had used it all through one sum-mer, when it was cheap, as the staple food for forty-two horses, and they had remained in excellent condition with per fect immunity from colic. Another speak fect immunity from colic. Another speak-er denounced the excessive use of chopped stuff, maintaining that horses preferred long hay, and that far too much was given in the way of "chop." Another mentioned that his firm fed eight times a day, and although the frequency seems excessive, the fact is admitted that horses should be fed often. Mr. Forch advocated the mixing of oats with chaff and cut hay, because the two kinds of foods called into exercise different digestive organs and thus the animals were preser better health.

The general summing up of the discussion seems to be that the men had seen most cases, and studied them closely, were least disposed to pretend to know much about the disease. Professor Mac-queen seems to think that it is due to a paccillus-Strongylus Armatus-and his arguments on the point seem weighty Calculi are often the cause of colic, and as preventives of colic, are: feed frequently, and not to allow long gaps in the bowels for the accumulation of gases, and the facilitating of fermen-tation; the food must not be too con-centrated, but have bulk as well as nutriment; and in respect of watering, the main thing is to have the water thoroughly clean, and it does not matter much when the animal partakes.

ELEATA AND THE ELECTIONEERS

Eleata again comes to the front a feat can be charged up against her-the oss of the \$10,000 Massachusetts Stake at Readville-and the best of them a time each was supposed to be at his best. Eleata's string of victories cludes so far two stakes of \$10,000 each, and her only losing race netted her own-er more by considerable than first money in several class races she has won on the Grand Circuit. She will probably lay up now till the Breeders' meeting at Bos-ton, which opens September 16, then be shipped to Lexington for the Transylvania, writes Percy in the "Telegraph. Matin Belis, that won the 2:11 pace Fri-Matin Bells, that won the 2:11 pace Friday, is a sister to Boreal, 2:15%, the sire of Boralma, 2:07. Boreal was a fast trotter as a yearling, taking a record of 2:37% at Providence, yet his sister is as natural a pacer as is Star Pointer. Bow Bells, the sire of Boreal and Matin Bells. is a brother to Chimes, sire of The Ab-bot, 2:03¼; The Monk, 2:08¼, and so very many of our 2:10 performers. Like Bow Bells, Chimes shows an iclination to get

stands out prominently with Arion, 2:07%; ket horse without adequate shelter and protection from the inclement storms redit. His daughters have produced which annually visit the horse-breeding districts in the autumn and spring, exposure to which have ruined many valuable young animals.

It is not to be expected that additional clothing other than what nature has provided with shelter from the storms. The parsimonious, starvation and freezing-out process resorted to by many old-time breeders consumes the profits of the inket horse without adequate shelter and Sunol, 2:08%, and Palo Alto, 2:08%, to his No sire of trotters has ever accomp-

line of begetting early and extreme speed. His progeny have held the trotgenerous feeding and comfortable shel- three-year-olds and four-year-olds; also ter are essential accompaniments to suc-ter are essential accompaniments to suc-cess in this branch of live stock hus-bandry. The high-priced animals of the wholesale markets are the horses raised Adbell is breeding on as Rowellan, 2:15%, on the modern humanitarian plan of pro-gressive breeders. With the farmer the Review \$5,000 stake shows. He trotted a gressive breeders. With the farmer the payment of a mortgage, the sending of the promising son to college, the added comforts of the hearth and home may be indissolubly connected with the profits arising from the sale of the young horses on the farm. A scrub animal, if properly reared, may develop into a higher priced horse than the neglected youngster of aristocratic lineage.

Review 45,000 stake shows. He trotted a last half in 1:03%, and last quarter in 31½ and properly in the farmer the last half in 1:03%, and last quarter in 31½ and properly in the farmer was little used by Mr. Backman and the offer of arising from the sale of the young horses than the neglected youngster of aristocratic lineage.

Review 45,000 stake shows. He trotted a last half in 1:03%, and last quarter in 31½ and properly in the farmer was little used by Mr. Backman and the offer of the past without the aid of sympathy of those who consider him an outcast.—Rider and Driver.

Review 45,000 stake shows. He trotted a last half in 1:03%, and last quarter in 31½ and properly in the farmer was little used by Mr. Backman and the offer of arising from the sale of the young horses arising from the sale of the young horses arising from the sale of the young horses arising from the sale of the young t

A DISCUSSION OF COLIC.

A DISCUSSION OF COLIC.

The veterinary surgeons composing the Central Veterinary Medical Society of Great Britain had a field day recently, when they discussed colic in horses after a good paper on the subject from Mr. Rogerson. The "Scottish Farmer" says and some of these may be useful to horsemen. Mr. Rogerson has had a "Beautiful Bells alone sold for above \$100,-" In charge of the horses in the Chicago of the Chicago of the Standard of the Standar



ST. LOUIS NATIONAL STOCK YARDS.

THE LIVE STOCK MARKET OF ST. LOUIS.

National - Stock - Yards. C. G. KNOX, V.-Pres. C. T. JONES, Gen. M'gr. L. W. KRAKE, As'st. Gen. Mgr.

Shorthorn Cattle. Scotch, Scotch Topped, Bates and Bates Topped. As good blood as the breed contains. Imp. Nonparell Victor 13277, Imp. Blackwatch 18334, Grand Victor 13772, and Windsome Duke 11th, 171622, in service and large English Yorkshires. Young stock for sale. Come and as or address.



Gentry Bros. Godar Valo Stock Farm SEDALIA, MO.

Grand Duke of Hazelhurst 195494, assisted by Waterloo Duke of Cedar Vale 135954, heads our heard of pure Bates and Bates topped, pure Spotch and Scotch topped cows of the most fashionable fami-iles. Stock for sale at all times at reasonable prices. Parties met 44 train. Parm two miles out. Telephone No. 39.

SCOTT & MARCH, Breeders of

Registered Herefords.

ORTIZ FRUIT FARM, MEXICO.

SHORTHORN CATTLE of pure Scotch, Bates and leading American families. BERKSHIRES of leading families of the breed. English Setters and Scotch Terriers that have been winners at leading bench shows of this country. Stock of all kinds for sale. Visitors always welcome.

M. B. GUTHRIE, MEXICO, Mo.

SHORTHORNS, BERKSHIRES and JACKS

ters left at the stud.
For Arion Palo Alto received \$125,000 when a two-year-old. This is the highest figure ever paid for a trotter, and shows what can be done after establish-

THE PACER MOST POPULAR. From the passing of the Narragansett

pacer in the early part of the last century until 1879, the pacer as an American race horse was considered of no value and no classes were made for him in arranging the programs of the great race meetings of the country. In the last year mentioned a number of sensational lat-eral-gaited horses were in training, among them being Blind Tom, Mattle Hunter, Lucy and Rowdy Boy, Their performances at the small meetings in the early part of that year were of so brilliant a character as to attract the attention of race goers everywhere, and actention of race goes everywhere, and certain progressive managers, appreciating the popularity which would innure to their meetings by the unequaled performances of these fast, but despised race horses, offered liberal purses for their approximations of the second for the s pearance, and for the first time in generation this class of horse was recog nized as a fit associate of his aristocratic trotting brother. The races in which these pacers participated were the most sensational of that year, and on the days when they were to race greater crowds attended than had ever assembled to wit ness a trotting race in all the history of those associations. The experience of that year demonstrated the fact that the public desires to see speed in harness racing in whatever form it comes, and for that reason the pacer had become a per-manent fixture in harness racing. Ever since the gates were opened to the pacer that year he has been a prominent factor in every successful race meeting held in this country. As his popularity began to increase, certain prominent breeders inate this so-called plebian member from harness racing the great industry would eventually crumble into ruins, and so hys-terical did some of the advocates become that they would not have an animal on their breeding farms whose ancestors pos--yet many Electioneers paced naturally from the trotting nurseries was afflicted race horse as a lateral-gaited perform and try as they would the breeders trainers were unable to disabuse mind of this improper notion. In obstinacy he exemplified the old maxim that "a man convinced against his will is of the same opinion still." The popularity of this once despised horse has increased to such an extent that he is at least an equal favorite with the trot-That he holds a high place in the esti-mation of the public was illustrated at the recent Providence meeting, when a large field contested for a purse of \$10,000 before an audience of 15,000, being by far the largest gathering ever assembled upon a Rhode Island race course. So well satisfied were the managers with well satisfied were the managers with the performances of the horses entered in this important race and their ability to attract the populace, that they have announced a purse of \$20,000 for a 2:10 pacing class in 1902. That General Tracey

ATHLETE. Absorbine, Jr. is invaluable in

restoring that pliable.

desired, also cures strains of the loints and ligaments in a few hours. \$1.00 pe bottle of regular dealers or by mail. Write

elastic condition of the muscles so much

W. F. YOUNG, P. D. F., PRINGFIELD,

AUCTIONEERS.

LIVE STOCK AUCTIONEER.

JAS. W. SPARKS, Marshall, Mo. Am selling or the best breeders everywhere. Posted on pediree and individual merit. Terms low.

R. W. MITCHELL LIVE STOCK AUCTIONEER,
EF I breed pure bred cattle and how my host
of patrons say I know how to sell them. Write for
terms and dates.

R. L. HARRIMAN, Live Stock Auctioneer Up-to-date in every particular. Am selling for t best breeders in the country. Terms low.

HARRY GRAHAM, CHILLICOTHE, ve stock and general sales
Auctioneer.

J. WEST JONES, LENOX, IOWA, and CABEY M. JONES, DAVENPORT, IA IOWA'S LIVE STOCK AUCTIONEERS

PRACTICAL LIVE STOCK AUCTIONEER. ales Cried Anywhere. Write for Dates

CHAS .W. ZWILLY, Fremont, O.

Black Jacks and Jennets 98 for sale cheap for prices on what you want. GREEN A. C EWEL, Leeton, Johnson unty, Mo. CATALOGUES for Shorthorn sales compiled of furnished complete at attractive prices. Address THOS. P. HALL, Breckenridge, Mo.

HAMER'S SURE CURE H. H. HAMER. Vermont. Ilis.

BEFORE BUYING PIPE Write us for manufacturors prices and save m DARROLL IRON WORKS, 712 Carroll Ave., Ch

A MISSOURI EXPERIENCE.

Mr. A. H. Carter of Miller & Carter, wholesale merchants, at Dexter, Mo., writes, Sept. 4: "Enclosed find \$2. Please end two bottles of QUINAS OINT-MENT. Have used QUINN'S OINT-MENT. roadster in the last ten days. hours I was surprised to find it almost will derive much consolation from reading the report of the Providence meeting
we do not believe, but the pacer will live
and prosper in the future as he has in
the past without the aid of sympathy of
those who consider him an outcome.

gone." This is the general experience
of the leading breeders and horsemen
who are using QUINN'S OINTMENT.
For curbs, splints, spavins, windpuffs
and bunches it takes the lead. Price,
large size, only \$1, sent by mail prepaid. This is the general experience of large size, only \$1, sent by mail prepaid.

If you cannot obtain from druggist address W. B. Eddy & Co., Whitehall, N. Y.

Written for the RURAL WORLD.

Dah's a dingy little cabin sittin' just' below de bluff Whah de Mississippi ben's in f'om de

An' its dah de steep cliffs slopin' fo'm ob all de spots on uhth I lubs

In de mawnin bright an' uhly, fo' de fust dawn's in de sky, u can see ouah light shine out across

in' little eye As dey watch dail mammy by de can-

When we all hab had ouah breakfus' an' de great sun shows his face, Den I takes my hoe and goes down to

While de pickaninnies scattuh out all

When de sun says "Time for dinnuh," shinin' straight between de rows, I so gladly seeks de cabin's res'ful shade an' sit down in de open do' whah de souf

wind gently blows, While de babies tell me how dey've wu'ked or played.

Oftentime I goes out fishin' in de pleasant afte'noons, An' takes my boat way up aroun' de

ben'. An' I stay until de daylight fades befo' de

Den I drift back down de rivuh, an' my haht fills up wid joy,
As I watch de steamboat lights come

When I reach home suppuh's waitin', so I stow de ole canoe An' we gathuh roun' de table to be fed, when ough hunguh's left us an' de little folks are through, ' dail mothuh tucks 'em safely into

step outside de do',
Whah I smokes my evenin' pipe beneath men de stahs.

watch daih silent brightness wid no sound along de sho' Save de watuh lappin' on de rivuh's

Dah we talk ob past an' present an' ouah tones are hushed an' low, For de evenin's solemn beauty seems to

say, Dat de moonbeams light de angels on daih jou'neys to an' fro, From de uhth to God's great land ob

When at last ough eyes grow heavy as is

fanned by unseen wings,

An' wake in froo de cabin's open do',

Soon de house am wrapped in stiliness an'
de only movin' things

Are de yellow moonbeams dancin' on de

Madison Co., Ill. C. C. DAKE.

Written for the RURAL WORLD. APING.

It takes strength of character to rise above what "others say." All are more or less affected by what "others say." If one regarded as a leader has new furni-ture or adopts the social fads, nearly all her friends and neighbors will want to have new furniture or do the latest things that Dame Fashion dictates. If Mrs. Fashionable gets a new hat her friends are prone to think theirs are much out of date, and even when the new hat can

upon because we are not fashionably dressed or our homes not furnished ac-cording to the latest style is frequently the result of our own over sensitive imag-The fact is that if we are of real

easily seen, and we are despised for our edge of the crust so that it stands up hypocrisy. And if any family holds aloof from neighbors because of better clothes plate, leaving a space between it and the strength. Through various winsome

There are customs practiced by people of means that it would be well for us to adopt. Some of these, too, are the ones that we can have without expendituse of money. The one that will help us to bear burdens prore chearfully and the customers. burdens more cheerfully and take some of the drudgery out of life is the using of flowers more freely in our home decorations. A large pitcher of golden rod, asters, or wild sunflowers will give to any room a look of culture. It can be so artistically arranged that it will show more titled and the sundant of the scription of the scription.

Sudden changes of weather are especially trying and probably to none more so than to the scrotulous and consumptive. The progress of scrotula during a dry his tears and tried to tell his story. "I started all right you know—" "Yes, you led them all."

"Yes, you led them all." "But when I got half way there the

adopt the best while we are trying to do as others do, and not do only the things if isn't the Cook's Fault,

Written for the RURAL WORLD.

The Duel.

On a dark and stormy night many years ago six men were congregated in an old shanty on the outskirts of Cave Hollow, not far from the banks of Rock creek (then a stream of considerable size coursing through a wilderness of brush and timber), engaged in gambling through the medium of cards,

As the game proceeded it was enlivened with frequent potations from a jug on the Written for the RURAL WORLD. floor near them, and the staking of sums ney to be lost or won according to the luck in cheating or skill in playing of the contending parties, and as the hours of night wore on excitement in the game increased and potations from the jug caused a greater abandonment to reck-

During the small hours of night a dise de pickaninnies scattuh out all roun' about de piace, dey spen' in play de happy hou's cheating. The quarrel became more bitter, finally resulted in the word "liar!" and blows. One of the men was knocked senseless and all engaged in the The interior of the shanty soon fray. The interior of the shanty soon presented a scene of destruction beyond description; battered heads and bloody fray.

noses were the rule. In an interval of less commotion it was decided that the principals should meet the next day and have satisfaction in a

Towards noon, after deep potations from the jug, they were assembled on a level place not far from the cave; twenty steps were measured off, the two took their positions and the two took their positions and at a signal from one roun' de tuhn,
An' I sing de ole plantation songs I luhned when but a boy,
Jus' to let de home folks know ob my
retuhn.

of the others fired simultaneously. One
of the men was wounded, but neither
fell. Again they fired, at the signal, and
one fell dead—instantly killed. This sobered the others and brought them to a realization of their position and the conquences that might accrue through dis-

ncil was held and immediate action taken. The body was removed to some distance from the scene of the encounter. A hole was excavated with much labor, made more arduous from lack of the necessary tools, the remains deposited in it, covered up and all trace of its location completely obliterated. The men traveled the woods southward, reached the National road near nightfall, eparated and departed in different direc pen, one was killed in a drunken row in East St. Louis, and all are dead. DYPE Effingham Co., Ill.

TURKISH RICE.

Stew one can of tomato with one small onion cut fine, a sprig of parsley and six pepper corns until very soft. Rub it through a strainer and add water or stock enough to make three cups. Pick over one cup of rice, put it in a strainer, wash and rub it well to thoroughly cleanse the grains, and let cold water run through it until it is clear. Place it directly on the stove in a small saucepan with one cup of bolling water, Place it directly on the stove.

Saucepan with one cup of boiling water, and cook until the water is absorbed.

Have the three cups of tomato scalding in the double boiler. Add one level transpoon of salt and the rice, and cook over hot water until perfectly soft. It will take an hour or more, as the rice will take an hour or more, as the rice soon go to Omaha with beef cattle.

At the store of the stove of the results of the store here, but ship most of during the hot weather, especially working in the hay fire. varies in hardness according to its age and the soil in which it is grown. At the last lift the cover and let it dry off; but do not stir it. Add one-fourth cup or two r-unded tablespoons of butter carefully and with as little stirring as possible. Then turn out and serve as a vegetable with roast meat or chicken. Cookling the rice partly in the water first subling the rice partly in the rice partly in the water first subling the rice partly in the ric jects it to a great heat, with no danger

what others think of us, as to our personal attire or our household furnishings. But the true independence is to get these things only when they can really be afforded, or are needed.

The feeling that we are looked down upon because we are not fashionably fressed or our homes not furnished aepording to the latest style is formed as t s not furnished actively some silices of bread in the oven until they are a light brown, and while hot roll them into the dust. Put it in a canister and use to strew over the bottom of the pie plate; the sides do not require anything. Lay in the bottom crust, trim as the conceal the fact. what we are not is usual; then with your fingers push the

she one, and even if fortune has not smiled on you, you will be honored and loved for that which is not perishable as mere things.

I often think how we ape our neighbors of means, buying some cheap material take the point of a knife and place the that resembles a garment they may wear, when for the same money goods which is not of the same money goods which is the lower crust and the plate, and you not quite so fashionable, but of much better quality, might have been obtained. I feel as if we were merely echoes, and softly spread, but do not press, the edge detections. Now, with the ments had been made for a foot race. Several boys were to run, although everybody was sure that Tom would win. The preliminaries were settled, the race was started and the boys were off over the curse. Tom led clear and free for about half the distance, then to the surprise of every one Johnny began to gain on him. Jim was just behind Johnny and running vigorously. Tom's feet seemed to grow heavy and Johnny steadily decreasing the state of the distance between them until final traces.

ters, or wild sunflowers will give to accord a look of culture. It can be so artistically arranged that it will show more real refinement and heart culture than a hundred dollar set of parlor furniture. It will show that which money can never buy. I am glad that money has its limitations.

Many farmers and their wives are prometed in the world. There is a good style to ape. The Creator of the dining table is aping style. Well, if so, that is a good style to ape. The Creator freely distributed the flowers in waste places and we should gather this beauty and with it make bright our homes. Their ed as its near relative, consumption.

It will show that which money can never think of scrofula—its bunches, can never think of the body segan to call, 'Go it, Johnny, you're set second.' 'Hustle, Jim, you're gaining.' But nobody said, 'Go it, Johnny, you're set second.' 'Hustle, Jim, you're gaining.' But nobody said, 'Go it, Johnny, you're set second.' 'Hustle, Jim, you're gaining.' But nobody said, 'Go it, Johnny, you're set second.' 'Hustle, Jim, you're gaining.' But nobody said, 'Go it, Johnny, you're set second.' 'Hustle, Jim, you're gaining.' But nobody said, 'Go it, Johnny, you're set second.' 'But when I got man never think boys began to call, 'Go it, Johnny, you're set second.' 'Hustle, Jim, you're set second.' 'But when I got man never think boys began to call, 'Go it, Johnny, you're set second.' 'But when I

which are merely style. MRS. MARY ANDERSON. Caldwell Co., Mo.

that the bulk coffee you just purchased turns out to be different from the "same kind" bought before. Coffee purchased in bulk is sure to vary.

The sealed package in which LION COFFEE is sold insures uniform flavor and strength. It also keeps the coffee fresh and insures absolute purity.

and was so low spirited when I read Mrs Mary Shaw's letter. Needless to say that I passed the "Station Despair in that I passed the "Station Despair in search of the city Hope." Your good let-ter did me so much good I want to thank

you for it, Mary Shaw. Come again. The last time I went to town a man was tramping along with a big bundle on his back. It was a very hot, windy day, and very dusty. I asked him to ride. My daughter and I filled the seat, but he found room for himself and bundle in the back. When we had gone about two miles, snap went the neckyoke strap, down dropped the wagon tongue. One horse jumped sidewise and the tugs came loose. But the tramp was at the horses head and in a few minutes all things the next day and have satisfaction in a due to the next day and have satisfaction in a due with revolvers. With this understanding hostilities ceased for the night, akes my boat way up aroun' de n'. Lay until de daylight fades befo' de in' moon, a wa'ns me dat de day hab reachits en'.

Towards noon, after deep potations of the were set to rights. When we got to town work. If I do ride in a buggy now, I haven't forgotten when I used to ride on done used to pay me \$2.50 per week, and often gave me a can of tomatoes besides.

The ties that Mrs. Shaw had recourse to in her time of need are useful as well as ornamental, especially the old-fash-ioned kind, from which a string could be taken and there be plenty left. That incident takes my mind way back to the days of "Auid lang syne." Father and eggs are added, as that tends to toughen the boys had got their clothes wet. They had to be dried for morning or else they would be required to put on their Sun day-go-to-meetings. The clothes were put and the fire on chairs to dry. We slept t until almost suffocated with I awoke to see father running with the chairs of burning clothes and throwing them into the snow. Water was scarce in those days. We bought it. Well next day we were all lamenting over the

loss.

Mother said: "T" think a thay gid clase t' be burnt!" But father said, "I widna mind th' clase, if it wasna fer m'

that came above the knee. He would put one end of his treasure in its place, hold it with his thumb while with the other hand he would wind it round and round until the other end was reached, which he tucked safely and gracefully under neath the many surrounding folds which held it safe. No danger of losing it. But

We have had good crops of hay and during the hot weather, especially while the men are working in the hay field. Cholera infantum is often a frequen years. It always cures the patient. Success to the RURAL WORLD, its

Bingham Co., Idaho. writers and editor

plate, leaving a space between it and the traits he had found his way to the heart of the teacher, and she was always interested in the traits he had found his way to the heart of the teacher, and she was always interested in his success. One day arrangements had been made for a foot race.

I feel as if we were merely echoes, and that, too, in things of least value. Mere fashion is never an educator of taste and a refiner of our natures. For fashionable things are many times most grotesque and at times positively hideous.

There are customs practiced by needle.

"Tell me what happened, Tom."
Tom dug his knuckles into his eyes to

"I started all right you know..."
"Yes, you led them all."
"But when I got half way there the
boys began to call, 'Go it, Johnny, you're

and heap upon the cake.

BAMBOOZLING GRANDMA

There never was a grandma half good," He whispered while beside her chair he

And laid his rosy cheek, With manner very meek, Against her dear old face in loving mood.

There never was a nicer grandma born: know some little boys must be forlorn, Because they've none like you. I wonder what I'd do

Without a grandma's kisses night and

there!" He kissed her, and he smoothed her snowwhite hair;

Then fixed her ruffled cap, And nestled in her lap,

When I'm a man what things to you I'll bring; horse and carriage and a watch and

ring. All grandmas are so nice (Just here he kissed her twice).

Before his dear old grandma could reply This boy looked up, and, with a roguish eye, hen whispered in her ear

That nobody might hear: 'Say, grandma, have you any more mince -Nebraska State Journal.

Written for the RURAL WORLD. The ingredients are 1% teacupfuls granulated sugar, 1 teacupful butter, 1 teacupful sour milk, ½ teaspoonful soda, two large eggs, 2 teaspoonfuls Royal baking powder. The way I mix it is to beat the dough will pile up slightly when it is dropped from the spoon back into the vessel. Beat well. Beat the eggs to a froth separately, then gently fold them into the dough, stir but do not beat. Lastly add the baking powder and soda by dropping them carefully on the dough at the side ply because such could be had on his of the vessel. Stir them into a small portion of dough with the handle of teaspoon until you are sure they are dis-solved. Then take the larger spoon and mix through the dough. Never beat after

SIMPLE REMEDIES.

rell-known physician uses soft lard pneumonia. To half a cup of the lard work in flour sufficient to spread easily. Put this on a piece of thin muslin and-place on the chest, allowing it to come well down over the bowels.

For a felon, as soon as it is discovered take one teaspoonful of carbolic acid to ten of water as hot as can possibly be borne. Soak the felon in this ten min-utes or more at a time, three or four times a day. Then poultice with flaxseed. When troubled with constipation or

severe cases where other agents fail, jections of glycerine and water, one part ten, will be found efficacious. A few lrops of glycerine in cold water will stop A teaspoonful of glycerine. added to the juice of a lemon, with a little sugar and the white of an egg, will For piles an ointment of vaseline, two

parts, powdered alum, one part, often brings relief.

Wordsworth's lines of a child at play, as if his whole vocation were endless nitation," were recently recalled by a nversation overheard in the children's

ward at a provincial hospital.

A little girl, whose role was that of urse, rang an imaginary telephone on the wall to talk to her companion at the farther end of the room, who played the art of doctor "Hello!" sai

said the nurse, "is that the "Yes," answered her companion in a deep voice; "this is the doctor."

"This lady is very ill," he was inform-"She has swallowed a whole bottle of

ink," said the nurse. The doctor, not flurried, inquired what

She answered: "I gave her two pads of blotting paer!"-London Tit-Bits.



A great many women are subject to spells of dizziness, spots before the eyes, and a ringing noise in the head. These symptoms are commonly associated with e commonly associated with e" as the result of a diseased the stomach and other orsymptoms are liver "trouble

symptons with the result of the store of the It cures through the stomach diseases seemingly remote from that organ, but which have their origin in a diseased condition of the stomach and digestive and nutritive system. Hence, cures of heart, lungs, liver, kidneys, and other organs are constantly effected by the use of Dr. Pierce's Golden Medical Discovery.

Poultry

A POULTRY AND PET STOCK SHOW will be held by the St. Clair County Poultry Association at Belleville, Ill., January 15-19, 1902. The association is arranging for a great show. C. H. Emery of Carthage, Mo., will be the judge.

GRAND RIVER VALLEY POULTRY AND PET STOCK ASSOCIATION.

Editor RURAL WORLD: Our secon annual exhibition will be held at King City, Mo., December 9-14, 1901. C. H. Rhodes will be the judge.

We have a fine list of specials, a strong ssociation and everything points to large and successful show.

Premium list will be sent free on apcation.

R. R. FRENCH. Ford City, Mo.

GREEN CUT BONE.

Science and Practice Unite to Comme

Editor RURAL WORLD: Let not the armer fool himself into the belief that fancier for his yarded fowls. I have had much practical experience with heas on free range at our own farm, also with flocks put out to farmers, and I am forced to this conclusion, that where 40 or more are kept the use of cut bone—one nce to the hen, given in the mash, the biggest ones can't get it all-will pay well. If only a dozen or so of fowls are kept, it must be given during winter if a good egg yield is expected, because insect life, nature's supply of animal food, is hibernating almost five months and at other times is insufficient for large flocks. Expert poultry specialists have long since recognized the economy and necessity of this nitrogenous food.

Eggs, according to Atwater, are com sed of shell (carbonate of lime). 12 per cent: water, 63; protein, 13, and fat, 12 per cent. Milk is 87 parts water, 4 parts pro-tein and 4 parts fat. Would it not be just as reasonable for

ply because such could be had on his farm, as to look for satisfactory egg and milk production from stock to which only a very small part of the essential ingredients of such products has been furnished?
Animals can no more make something out of nothing than can man. Is the lack of material any the less real because the animals can't make it known in words? Still their mute appeal can be seen and heard by those versed in nature's lore. No wonder turkeys grow so fast. Grasshoppers and worms on which they forage carry ten times more protein, comparatively speaking, than do the very best of our mixed feeds. A narrow (nitrogen-ous) ration is therefore not merely the gospel of science, but that of nature and good practice as well.

Since the proportion of carbohydrates n eggs (counting one part of fat worth wo and a half parts of carbohydrates), is 30 ounces to 13 of protein (nitroger substances), how can a suitable feed be mixed from grains alone when the riches grain, oats, allows just 13 ounces of flesh to 72 of fat forming elements? A hen confined to oats and water with even plenty of green stuff would, if fed up to her capacity, either waste much valua-ble food or (especially if she be of a large breed and not vigorously exercised), ac-cumulate a surplus of fat sufficient to keep her from laying well for many nonths. Most farm hens get corn exclusively. Its ratio of fat to flesh formers nitrogenous) elements. The objection to them lies in their being high priced and

unpalatable to fowls large amount of protein, but, as proven by figures and facts quoted below from a eries of accurate and unprejudiced experiments at the New York experiment station, not less than 50 per cent of this protein should come from animal sources;

The ration in which half of the flesh formers was had in cut bone produced gain for the first 12 weeks at a cost of 4.25c a pound; the other, in which vegetable products were used, i. e., grains, meals, etc., made a pound of increase for 5.19c. During the next eight weeks the chicks and ducks reached a given weight oner; also showed better health and ower death rate.

Get fresh bone with all the lean meat adhering you can; if there is a large quantity of fat, scrape it off; such will

Satiafactory and cheap machines are now on the market which will shave, not grind, it up so small that chicks can eat it easily. The mineral matter in the bone acts as grit till dissolved in making egg a little green bone added to the feeding the state of the state

THE PAN-AMERICAN PIGEON SHOW.

will be on the grounds six days from the 21st to the 28th of October. The pigeons and poultry have been left until the very last to permit the different birds to gain

classifications. Every one of the There is no alcohol in the "Discovery" has been selected for his well known ability as pigeon judge and all are familiother narcotics.

Some dealers may offer a substitute as just as good as Dr. Pierce's Golden Medical Discovery. There's more profit and it is free from opium, cocaine, and all other narcotics.

Some dealers may offer a substitute as "just as good" as Dr. Pierce's Golden Medical Discovery. There's more profit in substitutes for the dealer. There's more health in the "Discovery" for you. Don't be imposed on.

"It is with the greatest pleasure I write you the benefit my mother has received from your Golden Medical Discovery," says Miss Carry. Johnson, of Lowesville, Amherst Co., Virginia. She suffered ustold misery with utterine disease and nervousness, and had a constant roaring six bottles of Dr. Pierce's Golden Medical Discovery and raining noise in her head. After taking six bottles of Dr. Pierce's Golden Medical Discovery was entirely cured."

When a laxative is required use Dr. Pierce's Pleasant Pellets.

RE you getting what you pay for? Not if you are buying Mixtures,

Barytes and similar makeweights or adulterants falsely labeled "White Lead;" but you can get honest value for every dollar you expend for paint if you buy any of these brands of Pure "old Dutch process" White Lead (see margin).

With Pure Linseed Oil they make the only paint that will give permanent satisfaction.

For any color or shade required, use NATIONAL LEAD COM-PANY'S Pure White Lead Tinting Colors. Pamphlet sent free

NATIONAL LEAD CO., Clark Avenue and Tenth Street, St. Louis, Mo.



Canadian government on all exhibits approved by the Canadian Live Stock Committee.

The New York State Live Stock Commission have offered \$5,000 to be divided as premiums in the live stock departm Poultry and pigeons will come in for a share of this, which will mean practical-ly double the prize money as mentioned above, with no additional entry fee. This state. The honor of being represe at the Pan-American Exposition will peal to fanciers in stronger terms than the mere prize money. To win any mention whatever at an exhibit that is planned and carried out on such a scale as the Pan-American pigeon show, is to receive considerable honor that will in the future be mentioned with pardonable pride and will be referred back to

OVERPRODUCTION OF POULTRY.

Overproduction of poultry and eggs is a possibility, but that such has at any tim occurred is doubtful. The fear that the market may be over stocked has deferred some from venturing largely in poultry, but such fears have never been realized It is not unusual to find the market full at times not only of poultry and eggs, but of all kinds of produce, though there is a great difference in quality. It has been said of butter that there was no intermediate kind, as butter was either good or bad. If not of the best quality it was of no value, and if but little inferior to the best there was no place for it what-ever. Such may be said of eggs also, and it may be extended to poultry, says the "Texas Stockman and Farmer."

Quality regulates the prices. ce of only a cent a pound on po a dozen eggs seems insignificant, but when a large business is conducted the difference is great. As long as there are several prices for the products the market is overstocked with the lowest priced articles only. The best will be in der and will sell for all that it is worth the term "best" means a great deal, for it includes everything pertaining to supe riority. There is a large field open for those who aim to supply the market the best, and every season they will that they have room for Improvement order to excel.

A HANDSOME, HELPFUL BOOK.

"More Money From Your Hens" is the title of a new book issued by the Stratton Mfg. Co. of Erie, Pa., manufacturers of the well known line of Dandy Green Bone the well known line of Dandy Green Bone Cutters. It is attractively printed in two quantity of fat, scrape it off; such will colors, well illustrated, and goes into the only increase the carbohydrates already question of making poultry profitable, in a very thorough manner. a little green bone added to the feeding brooder

One cannot look at scaly legs with business.

Four or five applications of kerosene will them to-day for a copy. Additionally the minute parasites.—Western Fruit Incubator & Brooder Co., Quincy, Ill., and mention this paper.

FOR FREE SAMPLE OUR ELECTRO OZONIZED MEDICINI FOR THE SURE OURE Cancers, Tumors and Skin Disease o, J. C. PETIT, M. D., 1216 Olive St., St. Leuis

Modern Heating Co., 313 Chestnut St., St. Louis, Mo. Heating of Dwelling Houses, School ouses and Public Buildings with the Write for Prices.

Letter Heads, Bill Heads, Envelopes, Business Cards Etc., Etc. INDEX PRINTING COMPANY, st. Louis, Mo. LIFE SIZE DOLL FREE "Baby's clothes w now fit Dollie."



BIT IS A FACT

POULTRY.

BUFF ROCKS, S. L. Wyandottes and S. S. Ham burgs. Good game, try me.
J. E. HAYNES, Ames, Ill.

CHEAP, BUT GOOD. Young and old stock for sale now at the EGG FARM. Brown and White Leghorn, Barred and White P. Rock. Black Minorca and Bronze Turkeys. price. CIRCULAR FREE. E. W. GEER, Farmington, Mo.

B. P. R'S. Beautiful as any that grow, Useful as any that cluck or Bred crow. Young stock for sale. Write your wants.

Nepenthe Poultry Hanch. New Florence, Mo.

FINE BIRDS.

1901
tion or money back, Lt. Brahmas, Black
uns, B. Ply. Rocks, S. L. Wyandottes. They
ou good. H. T. REED, CAMP POINT, LLL. Rocky Hill Poultry Farms of or sale Barred P Rocks, Silver White and B randottes, Bronze Turkeys and Pekin Ducks. Geneders and show birds at very low prices for queders and show birds at very low prices for queders. Statisfaction or money back. Stock ready JOHN A. SHAW, MASTERICK, M.

Among the very first of the incubator and acts as grit till dissolved in making egg shells and bone.

No other source furnishes protein so cheap, so easy to be had, so acceptable to your birds or so nearly approaching the way nature stores it for them as green cut bone.

"MAPLEHURST."

a little green bone added to the feeding brooder concerns or the country to acceptable the grain bill, an important feature this fall when grain is high, but it also makes the poultry more productive in every way. It is a double-headed money-maker.

"MAPLEHURST."

The "Dandy" Sone Cutter has been on the regular advertising season. It afker. when they have not been with us during to the regular advertising season. It af-in fords us, therefore, more than usual The "Dandy" Bone Cutter has been on the regular advertising season. It at the market a number of years with increasing popularity. It has an automatic pleasure to state that they shall advertised in the regular advertising season. It after the market a number of years with increasing popularity. It has an automatic feeding device, is strongly and substantiate with us again this season, and their In connection with the great poultry show at the Pan-American, pigeons form a very important feature. The pigeons will be on the grounds six days from the 21st to the 28th of October. The pigeons and poultry have been left until the very and poultry have been left until the very sand some poor when the man of doing them much good, we also know that they them much good, we also know that they have done much good to our readers. The out Reliable goods are reliable in works and last to permit the different birds to gain their full plumage after the usual fall moulting period. Four hundred and sixty classes are provided in the pigeon exhibit, which is said to be the greatest number on which permiums have been offered at any show in the history of the business. Good breeders buy from such chickens rearred with a hen so diseased will become the same way themselves.

One cannot look at scaly legs without results as well as in name, and those of our readers who contemplate the purchase of machines of this class can do no better than to buy the time-tested old Reliable. Their 20th Century Catalog is, as usual, a work of great value. Write



tation. Where this is the case it gives a

meat forming material.

ment, but in the clover field it is different

Sixty Head to be Offered.

have been unnecessarily and unwarrant

boars no more-only stags and barrows

The principal sale among the Poland-

China breeders this fall, and one which

will command general attention, is the annual public sale by E. E. Axline of Oak Grove, Mo. He will offer 60 head at

Oak Grove on Monday, October 21. Mr Axline has confidence in the market and

and the same number of spring gilts. These were sired by Mr. Axline's well known boars, R's Perfection 24483 and Chief Eclipsed 22499, and out of sows by

U. S. Tom 2d and Chief Perfection 2d.

Kills Pain, Internal or External.

There are many kinds of pain, but there is only one Pain-Killer. Keep it by you. Beware of imitations. Buy only the genuine.—Perry Davis.' Sold Everywhere. 25c & 50c per bottle

NO PAIN.

NO PAY UNTIL CURED. W. A. LEWIN, M. D. 604 Washington Ave.

FOR SALE

26 registered Shropshire bucks from one to three years old, mostly year-lings; 20 buck lambs; would sell 48 registered ewes; reduction made on five or more to one buyer. Low down.

H. C. TAYLOR, Keping, Saline Co., Mo.

WORMS KILL YOUR SHEEP

SHROPSHIRE RAMS, all yearlings, for sale; also my stud ram for sale or trade for one as good.

Address L. G. JONES, Towards, III.

paluable information.

COTSWOLD SHEEP FOR SALE

ouble to answer.

H. D. Burruss, B. F. D. 2, Carrollton, Illinois

Greatest World's Fair Winners. Best purpose sheep. 100 fine broad ewes, shear from 10 to 20 lbs. at \$5.00 for quick sale. Extra rams. L. E Shattuck, Stanberry, Mo.

South Down Rams and Berkshire Pigs. C. A. McCUE, Auxvasse, Mo.

HAMPSHIRE SHEEP choice rams. Ewes and lambalat a bargain. Address JAMES TURNER, Box 144,

PRIZE WINNING CHESTER WHITES

IMPROVED CHESTER WHITES H. RAUSCHER & SON,

BERKSHIRES.

LARGE ENGLISH BERKSHIRES-\$8.00 buys White Turkeys. GEO. W. McINTOSH, Monett, Mo.

POLAND-CHINAS.

POLAND CHINAS—We have some extra fancy glits of 150 lbs., and some fancy gigs of both sex of fall farrow to offer the trade. They are perfect coat and color, sired by U. S. Chief Tecumseh 2nd, U. S. Per-fect I Know, Prince Hadley and Marke Winchester. Price, 310 to 315: money returned if stock is not sat-itatetory. L. A. Spice Breeding Co., 81. Jacob.

VIVION & ALEXANDER,

FOR SALE. A nice lot of fall pign, sired by Missouri's Black U. S., 13,715, S. and C. Perfection, dams are Look Me Over and B. U. S. J. E. SUMMERS, ille, Randolph Co., Mo.

WALNUT VALLEY FARM HERD

leading strains. Customers are cordially invite inspect stock before buying. ERNEST W. WALLEN, Monett, Mo. POLAND-CHINAS. Gilt-edge pedi-

vidual merit combined. R. L. ORGAN, Carmi, White Co., Ill. **DUROC-JERSEYS.**

DUROC-JERSEYS and W. P. ROCKS.

Choice young stock for sale. Address.
R. S. THOMAS, R. F. D. No. 4, Carthage, Mo.

BIG 2 HERDS Duroc-Jersey and Chester White Hogs. Top individuals. No screen-ings crated. Write for let-live prices. J. E. HAYNES, Ames, Ill.

Duroc-Jersey and Berkshire Hogs! Brooding ion guaranteed or you may return at my S. C. WAGENER. Pana, Ill.

Thoroughbred Duroc-Jerseys
A few gilts and male shoats for sale at teasonable prices. Lewis W Heastann East Alton, Ill.

East Alton, Ill. stuffs, and the question of digestibility,

CHOICE POLAND-CHINA SPRING PIGS by simply O. K., 1st prize yearling boar Mo. State Fair '91. and other great boars Write your wants and come and see them.

JOHN L. CLARK, Bolivar Mo.

ANGORA GOATS FOR SALE!

ioned goats that I will sell at a reasonable price. I am in a position to fill any orders satisfactorily from any standpoint. Address W. T. McINTIRE, Agent,

FINE BERKSHIRES

Of the best families at farmers' prices. Write for what you want, or, what is better, come and inspect the stock.

W. H. KER, Prairie du Rocher, Ills.



skim milk in various proportions to de-

termine the relative feeding value of the

chusetts Experiment Station has shown that buttermilk is worth as much as skim milk for feeding pigs. From these data

it will not take our readers long to ascer-

to pay for buttermilk so long as they can get good heavy middlings for \$12 per

Pain-Killer The Pig Pen

AUTUMN FEEDING.

'full feeding' would injure the starving

fed in small quantities at first and grad-

furnishing bone and muscle building ma-terial, etc., is of great importance. While five pounds of skim milk may be worth nve pounds of skim milk may be worth no more than a pound of corn meal for making gains with hogs, that amount of milk may be much more useful in a certain way. Pigs must have bone and muscle elements in their feeds, and corn meal does not supply this to the amount required. On the other hand, middlings are one of the best substitutes for milk. When a starving man is taken out of boat in midocean he is hungry. The are one of the best substitutes for milk, for the reason that they are rich in min-eral matter as well as protein. In the absence of buttermilk one can get along very well in feeding growing pigs a mixrescue him have abundance food and wealth and sympathy, but ey have also a proper amount common sense resulting from experi-ce. The hungry man does not poseral matter as well as protein. In the absence of buttermilk one can get along eat and the roots they pull are a great very well in feeding growing pigs a mix-dvantage to the hogs for the reason that ture consisting of two-thirds middlings they balance the grain ration, which is sess this common sense; he would gorge himself if allowed to do so. The rescuers are kind folk, but they seem cruel when out of their abundance they allow him but a meager meal, says the "Prairie Farmer." They know, however, that and one-third commeal for very young pigs, changing to half and half as they grow older, and ending with two-thirds corn meal and one-third middlings with fattening animals.—W. A. Henry.

WHAT IS A BREEDER?

"full feeding" would injure the starving man—experience has taught them the necessity and advantages of "going slow." Is not this somewhat akin to circumstances and facts attending the fall feeding of swine? This year there are many hungry hogs. They have fared sparingly for months, but rescuing rains came lately and food has been furnished at the later day when hope had about vanished in many localities. The hog moved in the service is an a different thing. Yet men of all classes will call themselves breeders, advertise as such, raise stock from other would naturally "hog" himself if allowed to get at all the food his appetite

e lots of this dangerous "stuffing" with the we feed this fall. It is a process of saining hogs that goes on unchecked the process of the classifier of the few dollars they may get from In average years when corn is plentiful it is followed worse than will be the case this autumn, when corn in many districts is somewhat of a luxury. But despite the fact that corn is scarce there is doubtless some food that the owner of hogs will feel that he can now spare in large quantities to make up for the few dollars they may get from clover sod is that there is a distribution of manure that cannot be had any other way. And more a field of this kind commends itself to the feeder on account of for pork or breeding purposes, they are is doubtless some food that the owner of hogs will feel that he can now spare in large quantities to make up for the lack of foods during the formal purposes, they are lacked to foods during the few dollars they may get from clover sod is that there is a distribution of manure that cannot be had any other mends itself to the feeder on account of despite the fact that corn is scarce there is a distribution of manure that cannot be had any other mends itself to the feeder on account of deanliness. How much better than a small lot or field that always gets muddy and filthy after light rain. A hog is not listoged to the feeding proposes are food that there is a distribution of manure that cannot be had any other way. And more a field of this kind commends itself to the feeder on account of or pork or prefer the few or many hogs they have produced, and way. And more a field of this kind commends itself to the feeder on account of or pork or prefer the few or many hogs they have produced, and way. And more a field of this kind commends itself to the feeder on account of or pork or prefer the few or many hogs they have produced, and way. And more a field of this kind commends itself to the feeder on account of or pork or prefer the feeder on account of the few or many hogs they have produced, and way. And more a field of this kind commends itself to the feeder on account of the feeder o despite the fact that corn is scarce there is doubtless some food that the owner of hogs will feel that he can now spare in large quantities to make up for the but they know but little about breeding.

lack of foods during the dry months when pastures were withered and other foods scarce and high priced. Such food will give by far the best results if it is In the first place, to be successful in breeding, one must have a natural love for the business; a desire to see a better reduct than the male and female he has fed in small quantities at first and gradually increased in amount after the swine become accustomed to it. At the same time the best results are to be had each year when the corn is balanced with other rations to make a complete food for the young hogs. They require all the constituents of food that go to form bone and blood and muscle. If they are given all the young corn they can eat the first result will be to set up indigestion and where this takes place the food does not give the desired gain of weight. similate it thoroughly and consequently put on weight fast that is no proof that the corn is doing the work expected of it. It is making lots of fat before the young animal has a frame to carry the weight safely, and the result in many cases is that the bones being weak the legs "give" at the ground and the pig walks upon its pastern joints.

If, on the other hand, the hog be read in the continued an impact of sheep. The conservative Vermont breadth and the pig walks upon its pastern joints.

If on the other hand, the hog be read in the defect in the defect, I took the \$15 pig. I could better have a certain breeder to buy a male of sheep. The conservative Vermont breeders are showing the old-fashioned Merinos as nature and the American climate intended them to look. They are the spell during the fattening period will hardly be of such continued duration that it will be hard to get a clean feeding place. Portable houses will be taken to this field in time to give them shelter from inclament from inclament from inclament from inclament from inclament in the same annual change.

It went to a certain breeder to buy a male the conservative Vermont breeders are showing the old-fashioned Merinos as nature and the American climate intended them to look. They have had seed has been removed. A wet had the wool pulled, or rather grown over their eyes, until they can hardly be of such continued duration that it will be hard to get a clean feeding place. Portable houses will be taken to this field in time to give them shelter from inclament from inclament from inclament in the property of the property of the property of the property of the sheep. The conservative Vermont change.

It went to a certain breeder to buy a male of such continued duration that it will be hard to get a clean feeding the property of the sheep. The conservative Vermont change.

It went to a certain breeder to buy a male of such continued duration that it will be hard to get a clean feeding of sheep. The conservative Vermont change.

It was that the p at the ground and the pig walks upon its pastern joints.

If, on the other hand, the hog be gradually accustomed to the abundant food supply of fall and the corn be mixed with would crop out.

as skim milk, ground middlings, barley, oats, bran oil meal or any of the other grain foods and products along with clover hay, there will be produced a healthy, normally strong and fully developed frame and supply of muscle and least best bard board. Have pigs from six of the vectored frame and supply of muscle and veloped frame and supply of muscle and best herd boars in America. I claim to veloped frame and supply of muscle and blood which will enable the animal to lay on fat later on without sickness or accident.

We are fully convinced that when the pig is kept growing from weaning time to winter feeding there need be no appearance of fat about it. The main thing is to encourage the growth of frame, large digestive organs, fully exercised.

To be a breeder in the true sense, one must know what he has and what he is sense.

pearance of fat about it. The main thing is to encourage the growth of frame, large digestive organs, fully exercised lungs, ample supply of healthy blood must know what he has and what he is lungs, ample supply or healthy blood and disposition to hustle rather than load as the result of judicious fall feeding and there is little difficulty or danger in placing it later upon a full feed of corn and it is this kind of hog that returns the largest return of gain for amount of food consumed.

We must be excused for drumming this We must be excused for drumming this advice into the young beginners so persistently, but we shall continue to do so until the idea becomes generally accepted as correct. Already the results of the discussion of this subject of hog growing and feeding along sensible lines are seen in the general interest taken in the publications of the various agricultural experiment stations regarding swine—experiments which a few years ago were apt to be considered needless and uninperiment stations regarding swine—experiments which a few years ago were apt to be considered needless and uninstructive. It has also lee to a general incurrence in the hands of the public. As it is the leading sale of the public is willing to trust his stock in the hands of the public. As it is the leading sale of the season, and, in fact, about the only one in this section, it should and uninquiry regarding the improvement of and quits the business.

and quits the business.

I like to deal with men who are ever on inshed for their nourishment.

BUTTERMILK FOR HOGS.

I like to deal with men who are ever on the alert and try to make the product of their own mating a little better than their last, and who knows what every pig on this farm is sired by. Brother breeders, let us work to the end that will make At the Wisconsin Experiment Station the writer some years ago, conducted 19 different feeding trials with commeal and skim milk in various proportions to a light provider to the light provider to th improvement of our hog

SOAKED CORN FOR PIGS.

U. S. Tom 2d and Chief Perfection 2d, which will increase the interest to grow-tion 2d 21701 and his dam, Look Perfect (55168) was by Look Me Over 901. Chief Eclipsed 22499, one of the best sons of was last season, when we were obliged to buy corn, and we bought it aiready shelled, says a correspondent of "Swineherd." Being dry and hard, as it always is during the summer, we placed it to soak from one feed to the next, thinking it better to feed. We fed in troughs, and the soaking kept the pigs from kicking it by A's Chief will be offered.

U. S. Tom 2d and Chief Perfection 2d. Nothing which is a som of Chief Perfection 2d. Contributing largely to this wool show, which will increase the interest to grow-ters, importers and farmers generally throughout the country. The classification is broad and liberal and includes almost every grade produced.

Sample fleeces are exhibited from Chili, Costa Rica, Bolivia, Salvador and other Central and South American countries. Argentina alone is showing two hundred samples. This means a great deal that does not fall gilts by A's Chief will be offered. two substances. It was found that five pounds of skim milk were worth one pound of corn meal for feeding, growing and fattening hogs. For fattening swine good wheat middlings are worth about 10 per cent more than corn. The Massatain that 25 per cent is too high a price it better to feed. We fed in troughs, and the soaking kept the pigs from kicking it full glits by A's Chief will be offered. out of the troughs to any considerable the glits are out of Model Boy or extent. We mixed and soaked oats with out of the troughs to any considerable extent. We mixed and soaked oats with the corn and received as good results as sif oats had been ground or fed other to their choice of a boar. The entire lot wise.

The pigs do not tire of the soaked the kind Mr. Axine breeds and is worthy

any time to eat the corn that had been soaked. They did not eat any more 1.-Hayes Walker in Drovers' greedily in this way than otherwiswanting compared to that of the hog. One can notice that a pig grinds dry corn with difficulty. We were pleased with the nand consequently must be reached results and shall continue to soak corn this season. We shall shell all the corn Jamison in "National Stockman."

If you make mutton the main object put as much wool as possible on the back of the sheep.

FEEDING HOGS ON CLOVER SOD. The Shepherd

THE PAN-AMERICAN SHEEP SHOW

clover sod to feed the logs on in the fall.

This is better than a wheat stubble clover for the reason that they injure this young clover by rooting and pulling the plants, writes John Jamison in the "National Stockman." They can do the old sod no Editor RURAL WORLD: The Shee injury because it is to be plowed the next ber 5.

Live stock shows follow each other i eat and the roots they pull are a great advantage to the hogs for the reason that they balance the grain ration, which is nearly always corn, and entirely too heating for best results when fed alone from of animals. Saturday and Sunday saw start to finish. The bite of clover that the last of the cattle, while Sunday and the hogs can get till it is all killed by Monday ushered in the first of the sheep. freesing is an inducement for them to take exercise. When the green growing the time to sleep, not even nights and part of the plant is killed they can still Sundays, as something is required of him work on the roots. In soft weather they every minute apparently, will pull many of them and eat them apparently with as much relish as they eat about 1,200 sheep and 240 goats. The goats

will pull many of them and eat them apparently with as much relish as they eat the foliage, and doubtless they are of about equal value with the foliage, as they are rich in bone and muscle form- appearance of being crowded. They are ing material. As a rule we have had lit-tle trouble with hogs rooting where fed on this kind of a sod. One field we have used this way has a gravelly knoll, which tion. Only for the try, they attract a great deal of atten Only for their goaty horns and would naturally "hos" himself if all lowed to get at all the food his appetite could dispose of, but it would be as unesseef or the hog to gorge himself as for the starved sailor man suddenly surrounded with plenty. And yet there will be lots of this dangerous "stuffing" with be lots of this dangerous "stuffing" with the start of the start o

The following breeds of sheep are represented: Cotswold, Leicester, Lincoln, Southdown, Shropshire, Oxford Down, Hampshire, Merino A, Merino B, Delaine Merinos, Rambouillet, Dorset Horn, mends itself to the feeder on account of Cheviot, Tunis, Suffolk and Highland Black Face. In all of these divisions first, second and third prizes will be given, besides high-class decorations for the best flock shown, for the best ram two years or over, and for several other sweepstakes and other classifications. Merinos, being the only distinctive

American sheep, are properly very much at home at the Exposition. They are numerous, too taken in the whole three classes. Class A is bred for constitution form, covering and weight of fleece; Class B is bred for form, constitution, covering, density and firmness of fieece; being the types of Merino commonly bred in America. Ramboullet as well as the Black Top Merinos have also been recog-nized and they have honored the show with their presence. Comment is liberally bestowed by vis-

sary to properly emphasize their beauty. This breed was evidently intended to grow much larger, as their skin is rolled and folded over in various places with unnecessary extravagance. This feature Leading Sale of the Season on October 21 figures both ways, however, as it enables them to turn off a large proportion leather besides furnishing a good d more surface to grow wool on.

Contrary to usual conditions, there are very few purebred hog sales listed for this season in Missouri or Kansas. Just why this is true is rather hard to under-The Merinos are appreciated when it omes to working up the fleece in our voolen mills. Such a fine quality and o much weight of fleece in such a small stand. A good many breeders, doubtless ably frightened by the long period of drouth in sections of these two states, and concluding from conditions in their own tonwiships that the country at large of wool. As the Sea Island Cotton com pares with the ordinary up-country pro-duction, so does the Merino wool com-pare with the other productions in this line. In comparing the different grades had gone to the bow-wows, declared off their scheduled auctions, trimmed their boars and sent their hogs to the feeding pens. In numerous cases these breeders have changed their minds and would now on exhibition the wonder is that our nanufacturers should deem it necess to import wool of any grade or quality. In the different breeds here represented may be found wool of microscopical fineness and wool the fiber of which is have held a sale, but their boars are The result is a scarcity of pure bred hogs that can be spared. Still other breeders are confident of higher prices for next spring and will carry their stock through But whatever the reason, comparatively

four or five inches in length, with a oarseness sufficient to give it great trength. Between these two grades ap-arently any variation might be selected, nd by a judicious mixture any grade or quality built up. It is only by com-paring the different breeds and consider-ing the same in a commercial manufact-uring sense, that we can fully realize the importance and great benefit that the careful stockmen of the country are proving themselves to be. Not so many years ago it was necessary for our wool-en manufacturers to import a great many ifferent grades in order to turn out the quality and variety of cloth sufficient to successfully compete with imported goods. While we still import certain grades of wool, and probably will con-tinue to do so, it is more in the nature of a luxury than necessity.

SPECIAL FEATURES.

eep show, Superintendent Converse has | Deldine Merino sheep snow, Superintendent Converse has installed an exhibit of wool. Foreign countries are contributing to render this feature an important adjunct to the sheep show. South American countries are contributing largely to this wool show, which will largely to this wool show, whether the largely to the sheep show. South American countries are contributing largely to this wool show, the largely to the largely t which will increase the interest to grow-ers, importers and farmers generally throughout the country. The classifica-tion is broad and liberal and includes al-most every grade produced. Sample fleeces are exhibited from Chili, Costa Rica, Bolivia, Salvador and other Central and South American countries.

Cedar Lawn, E. H. Rodgers, Porprietor.

Breeder of registered Shropshire Sheep, Poland China Hogs and Shorthorn Cattles, etc.

Catalog of Feed Cookers, Hog Troughs

Bronze Tarkeys and Barred Book Chickens.

End Contains of Feed Cookers, Hog Troughs

Tanks, etc.

Cient to check the socurs. Nor does there comes. Nor does the comes there comes. Nor does there comes. Nor does the comes there comes. Nor does the comes there comes. Nor does t



The above firm are sole owners of registered Distillery No. 22 of the Sixth District of Mi When writing them, please mention COLMANS RURAL WORLD.

~~~~~~~~~~~ Axline's Fall Sale.

OCTOBER: 21.

AT OAK CROVE, JACKSON CO., MO.

70 HEAD

OF POLAND - CHINA HOGS,

Consisting of 50 spring pigs of either sex, about equally divided, and 20 extra fall sows sired by A's Chief. They are very fancy. The spring pigs are by CHIEF ECLIPSE by Missouri's Black Chief, and R's Perfection by Chief Perfection 2d. My entire offering is up to standard. Your presence is invited.

WRITE FOR CATALOGUE.

E. E. AXLINE, OAK CROVE, MO.

On Kansas City Branch C. & A. R. R.

Send Bids to F. A. Scott, Care Mr. Axline.

F+++++++++++

the far Northwest will do in the matter of aising sheep without extra feed or ar-ificial protection except in the crudes nd simplest form.

It is an interesting fact that twelve ears ago the original stock from which these sheep were derived was very small.

Thirty-five pounds would come nearer
the present weight. Careful breeding has of course had a great deal to do with this increase, but the native pasturage and even climate no doubt rendered this

Bazaar Building, Pan-American Expo-

MISSOURI WOOL WINS GOLD MEDAL

Buffalo, N. Y., Oct. 3.-Missouri at the Pan-American Exposition was this after-noon awarded the signal honor of the rold medal for its collective exhibit of gota mean for its collective extinct of wool, together with a special award for its mohair and certificates of honorable mention for each of its wool exhibitors. The Missouri wool exhibit was prepar-ed under the direction of Prof. H. J. Wat-

ea unter the direction of Frot. A. Waters, dean of the agricultural college at Columbia, who procured from leading wool raisers the largest fleeces that could be obtained last spring. There were 19 boxes in the exhibit, all under glass. The mohair shown was held to be exceptionaly fine

The award of the gold medal is particularly gratifying to Commissioner Garver of the agricultural section, who had charge of the exhibit.

The Missouri farmers who will receive ertificates for their part in the exhibit are as follows:
Shropshire Wool—J. W. Boles, Auxvasse; D. F. Hall, Kilwinning; Benjamin

SPECIAL FEATURES.

WOOL SHOW.—In connection with the Hill Stock Fair, Koping.

Oxforddown—J. E. Muir, Hatton. Angora Wool—Elmer Frazer, Maryville.

countries are naturally great producers grade Lincoln wether in England was of wool each, at \$\$ per head. When one of raw materials. Their pasture lands are reckoned not by the acre, but by square miles. The United States is fast getting the loose fat thirty-four pounds, the lo sheep and its wool twenty years ago.

SHEARING AND CLIPPING MAFarmers saw nothing in sheep but wool;

CHINERY.—An interesting exhibit in one
of the stock buildings is designed to IIvery inferior. Now the choice carcasses of the stock buildings is designed to illiustrate the latest improved shearing machinery. A platform has been erected about the favor and number of machines installed thereon. I some of these machines are operated by electric power, while others are driven by hand. Twenty sheep are brought each morning from the East Buffalo Stock tyards, and some one of these is sheard every half hour during the day. One of the operators claims a speed of one and one-half minutes to take the fleece from an ordinry sheep.

RANGE SHEEP.—Another side issue in connection with the sheep show is a consignment of range sheep from the Canadian northwest territories. These are sent not to represent any special breed, but more as an advertisement of what the sleep make good cleaners and gather.

Now the thodec carcasses to market weigh heavily and give year tissement. I should have one say the pounds of wool fiber as an acre of land will of cotton fiber. To-day the wool is was a fair prices, considering the drouth. I am well pleased with the results. I have sent rams to all parts of the state and one to Tennessee. I will worth is cents and the cotton fiber of the sheep and the increase of the flock the colored man with flow would have the better of the norther an ordinary sheep.

RANGE SHEEP.—Another side issue in connection with the sheep show is a consignment of range sheep from the case of ground the poorer will it become, while the longer cotton is raised on the same piece of ground the poorer will it become, while the longer sheep are kept of the flock.

Sheep make good cleaners and gather the result of market weigh heavily and give poor tissement. I should have the of the norther of the northe

WINTER FEED FOR BREEDING

tion, using three lots of 12 and one of 11 ewes, a number of rations were compared for winter feeding, with especial reference to the value of corn fodder and silvage. Lots one and two were fed on corn fodder with bran and oats (1:1), lot 2 receiving corn silage in addition; lots 3 and 4 were fed on hay, with bran and oats (1:1), the former receiving of the letter rock in addition.

and the latter roots in addition.

The ewes in lots 1, 2 and 3 received ½ pound of grain per head daily, and those in lot 4 had % pound. In 10 weeks the lots gained 197, 122, 154 and 159 pounds, respectively.

There was not very much difference in the average length of time that the ewes of the different lots carried their lambs. Nothing of any importance can be gleaned from these slight differences in this respect, and the same may be said of a comparison of the number of days in pregnancy of the ewes of different breeds on this experiment.

There is also very little that is noteworthy in a comparison of the number or the condition of the lambs produced by the different lots, except the uniformity of increase and general vigor of the lambs from all the flock, irrespective of the kinds of feed given the ewe

of the kinds of feed given the ewes.

Well-cured corn fodder, of which about
65 per cent has had the ear corn reimoved, was a satsfactory feeding stuff.
Corn slage fed in conjunction with either
corn fodder or mixed hay and the same
ration of bran and oats is a very satisfactory and very cheap ration for winter
breeding ewes that are pregnant.

This experiment would seem to indi-

This experiment would vasse; B. F. Huntsman, Cairo; Joseph Miller, Granger; Benjamin Huber, Belton; Elk grees and that they do not give any better results than the other and cheaper fed. It would appear also that Standard ranch, Unionville.

Hampshiredown Wool-H. N. Oliver, ewes might readily get too much car corn and become too fat.

MERINOS AT BARGAIN PRICES-WOOL AND MUTTON.

L. E. Shattuck, Stanberry, Mo., who is acknowledged to have one of the best flocks of Merinos in the land, writes us that he has only half enough feed to winsamples.

This means a great deal that does not appear on the surface. South American countries are naturally great producers of raw materials. Their pasture lands are slaughtered, its live weight being 54 normals.

The consequences weight of that he has only half enough feed to windered the h

Kansas City Stock Yards, Kansas City, Mo.

for catalogs which will be ready Octobe Pigs that have this trouble when they

enough to go to any herd in the

Write to Mr. Axline at Oak Grove, Mo.,

we soak, as we do not think it a good the advice of S. H. Todd I used copperas idea to feed soaked ear corn on the ground in the dirt.

The dissolved in a necessary ful of this dissolved in a necessary full of this dissolved in the necessary full of this di amount of water, say a pint, and mixed with the sow's ration of slop once a day for three or four days I have found sufficient to check the scours. Nor does there

The Markets

WHEAT-Cash Market-No. 2 red at 7lc able at 70671c and No. 4 at 65c; skd. in elevator; 69%c for No. 2 red and 1c to 2c less for No. 2 and No. 4; hard winter at rates for Kansas.

rates for Kansas. CORN-Cash Market-No. 2 white 58½6 58c; No. 3 white selling at 58c, switched to elevator; No. 3 mixed or better selling at OATS-Cash Market-No. 2 sold at 3840

c; No. 3 at 38c; No. 2 white at 38%@ for fancy E. side; No. 4 white at 38c. RYE-No. 2 561/2c del.

BARLEY-Quotable at w@63c, according

to weight and color.

FLASXEED-Nominal at \$1.43.

BRAN-E. side country points 77c; 1001b. sks. 80c; on trk. 80c; bulk 72c. This

side 82@85c at mills.

SHIPSTUFF-95c@\$1. HAX-Prices E. trk. as follows: Timothy \$14@14.50 for choice, \$13@14 for No. 1, \$12@13 for No. 2; clover \$10@11.50 for No. 2 and \$12@13 for No. 1; clover mixed ranges at \$8 to \$12; prairie, this side, \$11@12 for No. 1 and \$9@10 for No. 2; alfalfa \$12@13.

PRICES ON CHANGE. The following tables show the range of rices in future and cash grains:

Closed Range Closed Saturday. Monday. Monday.

.704@79% a 104@%@71@% 71 b May ...73% b 57%@57% 57% a ...57%@57% ...36% n@.... 36% b Cash wheat, corn and oats ranged:
Range Range Range
Monday. Saturday. Last Tr. Wheat—No. 2 red....71 @72½ 71 @71½ 74¾@76¾ No. 3 red....70 @70½ 10 @70½ 72¾@74½ No. 4 red....90 @69½ 69 @70 No. 2 hard..68½ 68¾@68½ 71½@72½ No. 3 hard..68 67%@68 5714-@5744 39%-@40 2 :mixed.58 No. 2 'mixed.88 574_6574, 399_649

No. 2 white.594_6594, 59 6594, 42

No. 3 mixed.574_658 57 6574, 38 63814

No. 4 mixed.57 6574, 564_6576...

No. 3 white.589_6594, 584_659 414 40 @411/4 No. 2 yellow.58 58 No. 3 yellow.57%@58 57%@58

WOOL-Inactive. No speculative dewhile manufacturers are buying enough for their pressing needs. large here and mroughout the country.

Missouri and Illinois—Medium combing,

No. 2 mixed.38 @381/4 38 @381/4 221/4@231/4

18%c; burry, 11@18c; hard burry, 8%c. Tub-washed—No. 1, 24c; No. 2, 20@22c; slight bur-ry. 15c; hard burry, 12@13c. Angora goat hair—Long, 14@15c; short and low, 11@ 18c; burr²and cotted, 5@6c. COTTON—Local spot quotations—Ordi-nary, 6 7-18c; good ordinary, 6 15-16c; low middling, 7 9-16c; middling, 8 1-16c; good middling, 8 5-16c; middling fair, 8 11-16c.

EGG8-Fresh scarce and firmer; in denand, at 17c, loss off. Inferior, cold storage stock, etc., less.

BUTTER-Unchanged. Choice near-by make creamery scarce and firm; in de-mand. All other grades quiet. Creamery—Extra, 23c; firsts, 20@21c; sec-

onds, 18@19c. Country-Choice, 11c; poor to fair, 9@10c; grease, 4c. Dairy—Extra, 16@ 17c; firsts, 14@15c. Ladie-packed—Extra,

lic; firsts, 13%c. CHEESE—Jobbing: Twins at 10%c; sin-

good demand and firm; market was well cleaned dp Saturday and fresh arrivals were light; lightweights in best request—

HORSES—The horse market was rather elentifully supplied, all things taken into consideration. There was a very liberal auction run, also a considerable number of consignments, which were arrived for later days, but which nevertheless were ly. To offset these large supplies, there was only a fair Southern demand, and an Eastern inquiry which was not any better than the week before. It was not that rethan the week before. It was not that re-celpts were so heavy, but that the demand was lighter than the opening of last week. Buyers having the advantage and not being forced into as much competition, were sed to take things more slowly and the consequence was that values on the medium and commonplace horses were weaker and a little lower than the general scale of last week, but on the choicest and best there was not any decided change. Good Eastern horses were likewise scarce and practically steady. Horse quotations: Heavy draft—Common to good, \$125,0160.

choice to extra, \$175@200. Chunks, 1150 to 1350 pounds—Fair to good, \$70@90; good to choice, \$100@130. Coach horse and cobs— Fair to good, \$135@175; choice to extra, No. 2 mixed.35 (35%) 35% 24%(27%) No. 2 white.39 (35%) 39% 27%(27%) No. 3 white.38 (38%) 38%(35%) 24%(25%) No. 4 mixed.37 (337%) 37 (337%) ... (6... Horses for the South-Small, vers, fair to good, \$30@45; choice to extra, \$50@65; southern drivers, large, \$85@101. Export chunks, 1200 to 1500 pounds Plain to good, \$85(10); choice to extra, \$110@130. Business drivers—Fair to good, \$85(01); choice to extra, \$125(010). Saddlers for southern use—Fair to good, \$75(00) choice to extra, \$100@100; fancy gaited and New York saddlers, \$1509300. Inferior horses—Common, small plugs, \$20930; heavy work plugs, \$40650. MULES—The mule market closed last

week in firm shade, and opened Monday rather quietly. There were quite a num ber of Southern buyers on the market, but they were slow getting down to business. Most of the time was devoted to "look-ing," while but few sales were reported among the dealers. It was not a slower market, but simply of light activity, be representing nearly every quality, bu were not made up of straight consign ments, most of the arrivals coming in mixed shipments with horses. The feeling at the opening was of a steady character. Mule quotations (for broke mules, i to

years old): 14 hands, extreme range.....\$ 50.00@ 70.00 14 hands, bulk of sales..... 50.00@ 65 06 14½ hands, extreme range... 55.00@ 89.00 14½ hands, bulk of sales... 55.00@ 70.00 15 hands, extreme range...... 75.00@110.00 15 hands, bulk of sales...... 80.00@ 95.00 151/2 hands, extreme range..... 15½ hands, bulk of sales..... 16 to 16½ hands, extreme

LIVE POULTRY-Young chickens in ST. LOUIS NATIONAL STOCK YARDS.

CRAB APPLESS—Substain significe of the varieties to give varieties (1995; to black as the per type in the same and sadded as the "Miles sadd as did not afford to be without knowledge for Sibberian; transcendent 30g0be, to bet, 1,000 5,000, built of asies at 8.250 to 1.250 pounds average, full renge, rough to bet, 1,000 5,000, built of asies at 8.250 to 1.250 pounds average, full renge, rough to bet, 1,000 5,000, built of asies at 8.250 to 1.250 pounds average, full renge, rough to bet, 1,000 5,000, built of asies at 8.250 to 1.250 pounds average, full renge, rough to bet, 1,000 5,000, built of asies at 8.250 to 1.250 pounds average, full renge, rough to bet, 1,000 5,000, built of asies at 8.250 to 1.250 pounds average, full renge, rough to bet, 1,000 5,000, built of asies at 8.250 to 1.250 pounds average, full renge, rough to bet, 1,000 5,000, built of asies at 8.250 to 1.250 pounds average, full renge, rough to 1.250 pounds average, full renge and above at 8.250 pounds and upwards, step full renge and above at 8.250 pounds and upwards, step full renge and above at 8.250 pounds and upwards, step full renge and above at 8.250 pounds and upwards, step full renge and above at 8.250 pounds and upwards, step full renge and above at 8.250 pounds and upwards, step full renge and above at 8.250 pounds and upwards, step full renge and above at 8.250 pounds and upwards, step full renge and above at 8.250 pounds and upwards, step full renge and above at 8.250 pounds and upwards, step full renge and above at 8.250 po

DRIED FRUITS—These sold at 4½c for sun-dried quarters to 6c for evaporated rings. Sun-dried at 4½c: evaporated rings 56%4c, as to quality, and chops at 1½c.

WHITE BEANS—Spot offerings light; error in demand being good for limmediate use. Offerings for future delivers and bulls than week ago. Receipts at other markets have been heavy this week, ery dull and weak. In a small way from store, per bushel: Hand-picked pea at \$2.0; machine-picked or screened at \$2.10; car lots on track much less. Lima beans at \$4,63%c per pound; California pink at \$4,63%c per pound; California pink at 3½c.

HONEY—Comb—Dark at 668c; bright amber, 106/lic; white clover, 11½612%c—to the clover on scenario protory steers sold at \$2.6664.15, bulk at there had been some little confusion of dates, there was a very good crowd gathered there by noon Wednesday. The waste of the confusion of dates, there was a very good crowd gathered there by noon Wednesday. The waste week of course have been that there had been some little confusion of dates, there was a very good crowd gathered there by noon Wednesday. The waste week of care have to hear G. W. Waters talk, (he was just making his closing remarks by advising the boys to stay on the farm, as the professions were all too full, there being one doctor to every six hundred and prices show fully as much decline as other markets have been heavy this week, and prices show fully as much decline as other markets have been heavy this week, and prices show fully as much decline as other markets have been heavy this week, and prices show fully as much decline as other markets have been heavy this week, and prices show fully as much decline as other markets have been heavy this week, and prices show fully as much decline as other markets have been heavy this week, and prices show fully as much decline as other markets have been heavy this week, and prices show fully as much decline as other professions were all too full, there being one doctor to every six hundred to hear of the farm for some interest that

was established on best grades, the ex-treme top for Friday being \$8.90 for prime heavies. Pigs have been in liberal re-ceipt, and are selling \$1.00 lower than the high time. Saturday, under moderate re-ceipts, the market ruled steady on best, and dull and lower on the lights and comand duli and lower on the lights and common kinds. A fair clearance Saturday was made at the following values: Butchers and packers, \$6.35 to \$6.90, Yorkers and shippers \$6.25 to \$6.90, heavy pigs \$5.25 to \$6.90, light pigs \$4.50 to \$5.25, rough heavies \$5.50 to \$6.00.

SHEEP-Receipts for week moderate, and prices unchanged as compared with last week's close. Mixed lots of fat ewes and wethers are selling from \$3.25 to \$3.50, best lambs \$4.25 to \$4.75, stockers \$2.25 to \$2.50, best bucks \$2.00 to \$2.25.

Monday, Oct. 7, 1901.—CATTLE—Re-celpts in native division light, and prices on best grades of beef cattle ruled fully steady with close of last week. Comma and medium kinds show about 10c decline and medium kinds show about De decline. Chicago reported 28,000, and their market 10c to 20c lower on everything except strictly choice. There was very little demand for stockers and feeders unless they were of good weight and good quality. Canners sold 10c to 15c lower. The run in the Quarantine division was liberal, and ces were generally 10c to 15c lower than

ast week.

HOGS—Receipts moderate; prices strong notes—Receipts moderate; prices strong on best grades, extreme top \$6.90. Re-ceipts lights and common trashy stuff lib-eral, and this class was slow and lower. SHEEP—Receipts fairly liberal, market 10c to 15c lower on both sheep and lambs.

PLUCKY MISSOURI'S INITIAL FAIR.

In the face of adverse conditions presenting obstacles apparently well nigh insurmountable, the first Missouri Fair at Sedalia, Sept. 9-13, scored a success de cidedly better than might have been expected. With only \$50,000 to spend and out of it to completely equip a home for the exhibition, with only a few months in which to do the work, both of preparing the grounds and organizing the ma-chinery by which exhibits are secured, the results achieved bear strong testimony to the industry, energy and management of President Norman J. Colman, Secre-tary J. R. Rippey and their associates on the state board.

The policy on which the work has been done is the policy of permanency. No money has been spent in the erection of temporary structures, and every building secured is solid, substantial and perfect-ly equipped for the use intended. The structures completed include a very modest administration building, a sheep and swine building that for convenience, light and ventilation is not surpassed by any similar building in the western fair cir-cuit; a horse and two cattle barns, and two other structures devoted this year to miscellaneous uses, but intended event-

ed; sound, well-packed quote feeders of plain quality and common breeding were in liberal supply and sold made visiting uncomfortable, but kept fair to choice smooth and \$2@2.25

On the sects.

On the sects in the sects that the farmers were busy sowing wheat and that there had been some little confusion of dates there was a very good crowd.

3/2.

HONEY—Comb—Dark at 6@8c; bright amber, 10@11c; white clover, 11½@12½c—Inferior and broken less. Extracted and strained—Southern in barrels at 4c to 4½c; cans 4½@5c; California at 6½c in cans.

BEESWAX—25c per pound for prime.
ROOTS—Per pound: Ginseng, at 4½.5c, pink at 14c; golden seal—spring-dug at 46c, heavy fail-dug at 47c; May apple at 2½c, snake at 30c, black at 4c, angelica at 4c; wahoo—bark of root 8c, bark of tree 2½c; blood, 2½c; blueflag, 3c; skull-cap leaves, 5c; sassafras bark, 4c; wild ginger, 4c.

LIVE STOCK.

HORSES—The horse market was rather plentifully supplied, all things taken into consideration. There was a very liberal autoto. The consideration. There was a very liberal autoto. The consideration is a 2.00@2.30, the bulk at \$2.50@2.50, Arkansas and rand at 2.50@2.50, Arkansas and Todian Terpotory steers sold at \$2.56@2.75; stags and oxen at \$2.50@3.00, and calves, 100 to 300 pounds, at \$4.50@10.00 per head, with the bulk at \$7.00@3.50. Arkansas and Tennessee steers, 530 to 689 pounds averable for sold and the facts and figures to show that one might select very profitable dairy cow. Show that the bulk at \$2.50@2.50. Arkansas and Tennessee steers, 530 to 689 pounds averable for sold at \$2.50@2.50. Arkansas and Tennessee steers, 530 to 689 pounds averable for sold at \$2.50@2.50. Arkansas and Tennessee steers, 530 to 689 pounds averable for sold at \$2.50@2.50. Arkansas and Tennessee steers, 530 to 689 pounds averable for sold at \$2.50@2.50. Arkansas and Tennessee steers, 530 to 689 pounds averable for sold at \$2.50@2.50. Arkansas and Tennessee steers, 530 to 689 pounds averable for sold at \$2.50@2.50. Arkansas and Tennessee steers, 530 to 689 pounds averable for sold at \$2.50@2.50. Arka was established on best grades, the extreme top for Friday being \$8.99 for prime heavies. Pigs have been in liberal receipt, and are selling \$1.00 lower than the State Horticultural Society, made two

> such an enormous demand for insecti-cides that unadulterated Paris green can scarcely be bought. He says to keep the orchard, after it comes to bearing, cultivated with the disc or cultivator, harrow and roller from early spring till late summer; don't try to raise any other crop on the ground except the apples, not even weeds, and keep about 50 old hens for every acre of orchard; let them run right in it and they will be worth nore money than a train load of spray umps and insecticides. He has bee in the nursery and fruit business all his life and he says beware of the Truit tree agent with fine colored plates of varie-ties of apples with long Russian names, trying to sell them at 50 cents apiece, as trying to sell them at 50 cents apiece, as the best apple trees can be bought for 10 cents. He says the land here is as good for the production of fruit as any he ever saw, and he could see no reason why Missouri should not raise all the fruit she needs and not have to send to Colorado and California for peaches even. He had seen them raise peaches on irrigated land worth \$150 per acre,

ship on that 100 or 200 miles, reload on to the standard gauge, and ship to Missouri river points and then make some money on them. These talks will be worth hundreds of dollars to the people that heard them, but the fellow that makes fun of farmers' institutes and laughs at book farming will still let the agent pull the wool over his eyes and sell him fine winter applies that will turn out to be summer Ewe 2 years old or over—First to L. E.

wrap each peach in paper, pack in boxes

haul 40 miles to narrow gauge railroad,

BECOND DAY.

C. D. Lyon from Brown County, Southern Ohio, a jolly good hearted farmer the did not want to be called Prof., or anything else but plain Mr., was one of the speakers. He talked on chickens, just the speakers. He talked on chickens, just the speakers. common farm chickens, not fancy poul-try. He told how he built houses and 691, owned by Urlah Cook & Son; second try. He told how he built houses and cared for them and what he made out of them on his 180 acre farm. He also talked on cow peas, corn culture and wheat growing. He was a very interesting speaker; this 4s his first visit to Missouri, having been at institute work for the past 12 years in other states. He was told on comng to St. Louis that they were Missourians and he would have to show them, but he found he was being shown a great deal; he said he had met with

bbl. for fair to choice smooth and \$2@2.25
for fancy varieties; home-grown windfalls
56@36c per bbl.; at \$1.25@1.00 per bbl. for
fancy.

PEARS—Firm for good stock, with fair
offerings; home-grown common varieties
decline. Demand for all classes feeders
was weak. Best grades milk cow with
per bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; Duchess \$2@2.25 per
bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; Duchess \$2.92.25 per
bbl.; Luchess \$2.92.25 per
bbl.; Luchess \$2.92.25 per
bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; Duchess \$2.92.25 per
bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; Duchess \$2.92.25 per
bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; Duchess \$2.92.25 per
bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; Duchess \$2.92.25 per
bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; Duchess \$2.92.25 per
bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; Duchess \$2.92.25 per
bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; Duchess \$2.92.25 per
bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; Duchess \$2.92.25 per
bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; Duchess \$2.92.25 per
bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; Duchess \$2.92.25 per
bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; Duchess \$2.92.25 per
bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; Duchess \$2.92.25 per
bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; Duchess \$2.92.25 per
bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; Duchess \$2.92.25 per
bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; Duchess \$2.92.25 per
bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; Duchess \$2.92.25 per
bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; Duchess \$2.92.25 per
bbl.; Reifers \$1.50@1.75 per bbl.; Bartletts \$2.75@3 per bbl.; D bbi.

PLUMS—35645c per ½-bu. basket for damsons.

GRAPES—Steady. Pony Delawares 14 (35c; Elviras and Marthas 10c per 8-lb. baskets; New York Niagara 8-lb. baskets 124c; Cattle, 1,300 to 1,600 pounds average, \$5.006 large basket; poines 10611c.

CRAB APPLES—Siberian 40650c per ½-bu. basket; other varieties 10625c; bbls.

Lase of the date of the date of the date of the varieties 10625c; bbls.

Lase of the date of the ledger.

Considering the fact that the fair is in its infancy and that the date of its meeting contilicts with Wisconsin, the entries in the various departments were satisfactory. In horses only was the showing and export steers, 1,300 to 1,600 pounds, \$5.5565.70; fair to medium shipping steers, bu. basket; other varieties 10625c; bbls.

Lase of the farmer and fruit grower; that they should learn about the growth of plants, flowers and weeds so they would know the former and the ledger.

Considering the fact that the fair is in its infancy and that the date of its meeting contilicts with Wisconsin, the entries in the various departments were satisfactory. In horses only was the showing and export steers, 1,300 to 1,600 pounds, \$5.5565.70; fair to medium shipping steers, bu. basket; other varieties 10625c; bbls.

Liso of Siberian; transcendent 30640c per ½-bu. hasket; other varieties 10625c; bbls.

Liso of Siberian; transcendent 30640c per ½-bu. hasket; other varieties 10625c; bbls.

Liso of Siberian; transcendent 30640c per ½-bu. hasket; other varieties 10625c; bbls.

Liso of Siberian; transcendent 30640c per ½-bu. hasket; other varieties 10625c; bbls.

Liso of Siberian; transcendent 30640c per ½-bu. hasket; other varieties 10625c; bbls.

Liso of Siberian; transcendent 30640c per ½-bu. hasket; other varieties 10625c; bbls.

Liso of Siberian; transcendent 30640c per ½-bu. hasket; other varieties 10625c; bbls.

Liso of Siberian; transcendent 30640c per ½-bu. hasket; other varieties 10625c; bbls.

Liso of Siberian; transcendent 30640c per ½-bu. hasket; other varieties 10625c; bbls.

Liso of Siberian; tr

time from their work their work will seem lighter and more pleasant from having been there, so it will be time well spent.—G. in Marion Co., Mo., Her-

THE JACKSONVILLE State Fair will be held at Jacksonville, Fla., on November 19 to 22, inclusive.

A SENSIBLE TALK

In purchasing any kind of an implemen it is not enough that it looks well, the paint bright and the polished parts shiny, but it must have a reputation for per-formance in actual service, be made by a concern of standing and be bought from a dealer of broad experience and respon sibility-one who has something to lose more valuable to him than the few dollars profit to be made by a sale.

The necessity for the existence of these

onditions, to enable one to secure articles worth the money, appeals to every sensible buyer, and it is believed they will be found when dealing with the H. Reinstedler Implement Co., 1104 to 1108 North Third street, St. Louis. The general manager, Mr. Reinstedler, has been successfully in the implement business for forty years, and he thoroughly knows the constructions of every device he handles—what it will do and the amount and character of work—and he can be relied on to furnish cutters, feed and cider mills, feed cookers or any farm ma-chinery that will give satisfaction. Be-sides, he announces in another column, that he will sell at "wholesale prices." Correspondence should be opened up at once, as per above address.

ILLINOIS FAIR AWARDS ON SHEEP.

State Horticultural Society, made two talks on commercial and farm orchards. He believes in the farmer having fresh fruit the year round, by beginning with strawberries, then raspberries, blackberries, grapes, peaches and apples that will keep till June. He does not believe in the farmer fooling his time and money away in spraying as it has to be done so often to do any good and there has been such an enormous demand for insecti- owned by F. B. Hartman; second to 2525, owned by George Allen; castle, Ind.

Ram 1 and under 2—First to Victor 2532, often to do any good and there has been owned by F. B. Hartman; second to 2625, and the second to Shelby 11488, owned by George Allen; third to arminal owned by George Allen; second to Shelby 11488, owned by George Allen; third to arminal owned by George Allen; third to arminal owned by George Allen; the farmer for the fa

owned by F. B. Hartman; second to 2625, owned by Crodian & Gardner; third to Sampson 4263, owned by Crodian & Gard-

Ram under 1 year old—First to animal owned by F. B. Hartman; second to ani-mal owned by L. D. Young, Bloomington, Ill. Ewe 2 years old or over-First to Wild

Rose 3433, owned by F. B. Hartman; second to 3136, owned by Crodian & Gardner; third to 3213, owned by Cordian & Gardner. Ewe 1 and under 2—First to Beatrice

2658, owned by F. B. Hartman; second to Mary 2d 2656, owned by Cordian & Gard Ewe under 1 year old—First to animal

owned by L. D. Young; second to animal owned by Crodian & Gardner; third to animal owned by F. B. Hartman. Flocks, ram and three eyes—First to F.

Pens, four lambs, two rams, two ewes-Champion, ram any age—Premium to 3767, owned by F. B. Hartman. Ewe any age-Premium to Beatrice 2658

wned by F. B. Hartman MERINO SHEEP. Ram 2 years old or over—First to M. K. B. 68, owned by Uriah Cook & Son, West Mansfield, O.; second to U. Cook, owned

speer his eyes and sell him fine winter apples that will turn out to be summer apples or crabs for 50 cents, and pay \$100 for a can worth \$2 and call it a milk separator.

SECOND DAY.

SECOND DAY.

Ewe 2 years old or over—First to L. E. S. 647, owned by Uriah Cook & Bon; second to U. Cook 519, owned by Uriah Cook & Son; third to F. W. Perkins 43, owned by F. W. Perkins, West Mansfeld, O. Description of the cook of the cook

Ewe under 1 year old-First to U. Cook

Champion ram, any age, and ewe, any Ram 2 years old or over—First to Jacob's All Wool 16431, owned by George Harding & Son, Waukesha, Wis.; second to A. 98,

owned by Lewis Bros., Camp Point, Ill.;

DIRECT FROM THE FACTORY

bed, spring and mattrees for the money return it to us, and a year satisfied pay the agent \$3.50 plus freight charges. Send us your and address for complete catalogue showing every article of furn seeded for the home and guaranteeing factory ABSOLUTELY FREE price; also, our plan for giving you a present Address BEULAH MERCANTILE CO. (Incorporated) 8t. Louis, M.

C. E. Vigal & Son, New City, III. Breeders of Poland China's, Choice Sows bred or unbred to I Know Perfection by Perfection Error Perfection 2nd, dam of Perfect You Know by Perfect I Know Satisfaction guaranteed.

George Harding & Son; third to A. 101, owned by Lewis Bros.
Flocks, ram and three ewes—First to

George Harding & Son; second to George Harding & Son; third to Lewis Bros. Pens, two rams and two ewes, the get one ram, bred and owned by exhibito -First to Lewis Bros. Champion ram, any age-Premium to

George Harding & Son.

Ewe any age—Premium to George Harding & Son.

SOUTHDOWN SHEEP.

SOUTHDOWN SHEEP.
Ram 2 years old or over—First to Victor
12280, owned by George Allen, Allerton,
Ill.; second to animal owned by George
McKerrow & Son, Sussex, Wis.; third to
Royal Ardin 12488, owned by George Allen.
Ram 1 and under 2—First to Chichester
King 14890, owned by George Allen. King 14890, owned by George Allen; second to animal owned by George McKerrow & Son; third to Archie II. 13802,

Allen; third to animal owned by McKer row & Son. Ewe 1 and under 2-First to Dinal

1395, owned by George Alen; second to Cherry 1489, owned by George Allen; third to George McKerrow & Son. Ewe under 1 year old-First to Allen's 1507-14885, owned by George Allen; second to Allen's 1508-14886, owned by George Allen; third to animal owned by George McKerrow.

Flocks, ram and three ewes-First to George Allen; second to George Allen. Pens, two rams and two ewes, get of one ram, bred and owned by exhibitor— First to George Allen; second to George McKerrow; third to J. A. Leland, city. Champion ram, any age-Premium to George Allen.

Ewe any age-Premium to George A) LEICESTER AND LINCOLN SHEEP. Ram 2 years old or over—First to No. 853, owned by George Harding & Sons, Ram 1 and under 2-First to 7426, owned

by George Harding & Sons; second to 8534, owned by Lewis Bros., Camp Point, Ill. Ram under 1 year old-First to Walker's 703, owned by George Harding & Sons; second to Walker's 704, owned by George Harding & Sons. Ewe 2 years old or over—First to Dud-

ding's 60-7692, owned by George Harding basing day of all breeding and fat cat-& Sons; second to 4480, owned by Lewis tle for showing purposes. On that date Ewe 1 and under 2-First to Wright's

Ewe 1 and under 2—First to wrights of 1-year-one to 1227 8212, owned by George Harding & Sons; second 904, owned by Lewis Bros.

Ewe under 1 year old—First to Walker's 709, owned by George Harding & rings on Friday evening, in order that Sons; second to Walker's 710, owned by cattle may not be held over Saturday,

Champion ram, any age—Premium to George Harding & Sons. Ewe any age—Premium to 7602, Hard-

No. 1 Hand Power Pea Huller. Guaran tee to hull and clean from 10 to 15 byshels of peas per hour, or twice as great a

Write for prices and circulars to the Star Pea Machine Co., Chattanooga, Tenn. IRON PIPE AT WHOLESALE.

capacity as any other machine

arket Report Furnished by Evans-dank
der-Biel Company.

Market Report Furnished by Evans-dank
dull-bear dank der-Biel Company.

Market Report Furnished by Evans-dank
der-Biel Company.

Market Report Furnished by Evans-dank
der-Biel Company.

Market Report Furnished by Evans-dank of your letter.

STOCK NOTES.

Decatur, Ill., in our columns, offering their well known dehorning clipper. If hardware dealers cannot supply our readers they should write direct to the manufacturers at address given above.

FOR THE KANSAS CITY SHOW .-Secretary Frank B. Hearne of the Galloay association, reports to-day that the tries for the Galloways participating in the American Royal show and sale have closed, and that fourteen herds will be represented. It now seems likely that about 180 of the finest Galloways in Amerwend by Lewis Bros., Camp .

ithird to 18 R. 66, owned by Lewis Bros.

Ram I and under 2—First to Houlton |
1390-24887, owned by George Harding & son; second to A. 90, owned by Lewis |
Bros.; third to Prince Tom 24884, owned |
by George Harding & Son.

Ram under 1 year old—First to Garnes |
17-2489, owned by George Harding & Son; second to A. 101, owned by Lewis Bros.; third to Garnes 22-24896, owned by George Harding & Son.

Ewe 2 years old or over—First to 1898, owned by Lewis Bros.; owned by Lewis Bros.; all lings 428-18812, owned by George Harding & Son.

Ewe 2 years old or over—First to 1898, owned by Lewis Bros.; blird to Garnes 1898, owned by Lewis Bros.; blird to Garnes 22-24896, owned by George Harding & Son.

Ewe 2 years old or over—First to 1898, owned by Lewis Bros.; blird to Garnes 1898, owned by Lewis Bros.; blird to Garnes 22-24896, owned by George Harding & Son.

Ewe 2 years old or over—First to 1898, owned by Lewis Bros.; blird to Garnes 1898, owned by Lewis Bros.; blird to Garnes 22-24896, owned by George Harding & Son.

Ewe 2 years old or over—First to 1898, owned by Lewis Bros.; blird to Garnes 22-24896, owned by George Harding & Son.

Ewe 2 years old or over—First to 1898, owned by Lewis Bros.; blird to Garnes 22-24896, owned by George Harding & Son.

Ewe 2 years old or over—First to 1898, owned by Lewis Bros.; blird to Garnes 22-24896, owned by George Harding & Son.

Ewe 2 years old or over—First to 1898, owned by Lewis Bros.; blird to Garnes 22-24896, owned by George Harding & Son.

Ewe 2 years old or over—First to 1898, owned by Lewis Bros.; blird to Garnes 22-24896, owned by George Harding & Son.

Ewe 2 years old or over—First to 1898, owned by Lewis Bros.; blird to Garnes 22-24896, owned by George Harding & Son.

Ewe 2 years old or over—First to 1898, owned by Lewis Bros.; blird to Garnes 22-24896, owned by George Harding & Son.

Ewe 2 years old or over—First to 1898, owned by George Harding & Son.

Ewe 2 years old or over—First to 1898, owned by George Harding & Son.

Ewe 2 years old





BEFORE BUYING PIPE Write us for manufacturers prices and any of Money. Of Money.



SCHOOLS AND COLLEGES

"A Business Education and the Place to Get It" JONES ercial College, Shorthand and Telegraph 5 309 NORTH BROADWAY, ST. LOUIS, MO.



tle for showing purposes. On that date in the future all show cattle will pass from the class of 1-year-olds to 2-year

Sons; second way, or old—First to Walker's 709, owned by George Harding &
Sons; second to Walker's 710, owned by
George Harding & Sons; third to 314,
owned by Lewis Bros.
Flocks, ram and three ewes—First to
George Harding & Sons; second to Lewis
George Harding & Sons; second to Lewis

PROFESSIONAL SKILL.

It is all well enough for a farmer to grow a variety of products on his land—garden truck, fruits, etc.—which shall be sufficient for the consumption of his own family, but to reach the greatest meas-ure of success he must concentrate his efforts upon one principal crop, learning all he can regarding its production, before he will have arrived at the top of

the ladder of agricultural industry.
So it is in treating diseases. The skill-ful practitioner finds pleasure and enjoys a superlative degree of success in a giv-

MILLS.

Curiosity is an element to which we owe half the happiness of our lives. CATTLEMEN will notice the adver-tisement of the H. H. Brown Mfg. Co., Without it we would have missed half the the benefits of the wonderful progress and improvement of his time.

